DigiClient™

VERSION 1.0

The Digital
Surveillance Solution

User's Manual

ENGLISH

AMERICAN DYNAMICS™

DigiClient™
Remote Viewing and Configuration Software for DigiMux™

User's Manual

English

Part Number 8200-0390-9900 A0

Notice

The information in this manual was current when published. The manufacturer reserves the right to revise and improve its products. All specifications are therefore subject to change without notice.

Copyright

Under copyright laws, the contents of this manual may not be copied, photocopied, reproduced, translated or reduced to any electronic medium or machine-readable form, in whole or in part, without prior written consent of Sensormatic Electronics.

© Copyright 2003 Sensormatic Electronics Corporation

Trademarks

DigiMux, DigiClient, and DigiRemote are trademarks of Sensormatic Electronics Corporation.

© Copyright 2003 Sensormatic Electronics Corporation. All rights reserved. DigiClient is a trademark of Sensormatic Electronics Corporation

Windows® is a registered trademark of Microsoft Corporation. ThumbDrive® is a registered trademark of Trek 2000 International Ltd. FireWire® is a registered trademark of Apple Computer, Inc.

Trademarked names are used throughout this manual. Rather than place a symbol at each occurrence, trademarked names are designated with initial capitalization. Inclusion or exclusion is not a judgment on the validity or legal status of the term.

For your Records

Complete the following product purchase information. The factory requests this information when contacted for technical support. It is also valuable in case of loss or theft.

Purchase Date: _____

Serial Number: _____

Thank you for using American Dynamics products. We support our products through an extensive worldwide network of dealers. The dealer through whom you originally purchased this product is your point of contact if you need service or support. Our dealers are empowered to provide the very best in customer service and support. Dealers should contact American Dynamics at (800) 507-6268 or (561) 912-6259 or on the Web at www.americandynamics.net.

END-USER LICENSE AGREEMENT

READ THIS LICENSE AGREEMENT BEFORE OPENING THE DISK PACKAGE, INSTALLING THE SOFTWARE OR USING YOUR SYSTEM.

THIS LICENSE AGREEMENT DEFINES YOUR RIGHTS AND OBLIGATIONS. BY BREAKING THE SEAL ON THIS PACKAGE, INSTALLING THE SOFTWARE OR USING YOUR SYSTEM, YOU AGREE TO ALL OF THE TERMS AND CONDITIONS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO ALL OF THE TERMS AND CONDITIONS OF THIS AGREEMENT, YOU MAY, WITHIN 30 DAYS, RETURN THIS PACKAGE, ALL THE DOCUMENTATION, AND ALL ACCOMPANYING MATERIAL(S) TO THE POINT OF PURCHASE FOR A REFUND.

SOFTWARE LICENSE

The Software includes the computer software, the associated media, any printed material, and any electronic documentation and may be provided to you installed on a hard drive (the media) as part of a system. The Software is licensed, not sold.

GRANT OF LICENSE

This agreement between Sensormatic and you permits you to use the Software you purchased. Once you have purchased the number of copies you require, you may use the Software and accompanying material provided you use no more than the licensed number of copies at one time. The Software is only licensed for use with specified Sensormatic supplied equipment. If the Software is protected by a software or hardware key or other device, the Software may be used on any computer where the key is installed. If the key locks the Software to a particular System, the Software may only be used on that System.

OTHER RIGHTS AND LIMITATIONS

A demonstration copy of the Software is considered purchased and is covered by this license agreement.

- You may not de-compile, disassemble, reverse engineer, copy, transfer, or otherwise use the Software except as stated in this agreement.
- The hardware/software key, where applicable, is your proof of license to exercise the rights granted herein and must be retained by you.
- If the Software is provided as part of a System, the Software may only be used with the System.
- You may not sub-license, rent or lease the Software, but you may permanently transfer the Software to another party by delivering the original disk and material comprising the Software package as well as this license to the other party. Initial use of the Software and accompanying material by the new user transfers the license to the new user and constitutes the new user's acceptance of its terms and conditions.
- Sensormatic reserves the right to revoke this agreement if you fail to comply with the terms and conditions of this agreement. In such an event, you must destroy all copies of the Software, and all of its component parts (e.g., documentation, hardware box, software key).
- The Software may contain software from third parties that is licensed under a separate End User License Agreement (EULA). Read and retain any license documentation that may be included with the Software. Compliance with the terms of any third party EULA is required as a condition of this agreement.

Failure to comply with these restrictions will result in automatic termination of this license and will make available to Sensormatic other legal remedies.

UPGRADES

If the Software is an upgrade from another software version, you may use or transfer the Software only as specified in this agreement. If the Software is an upgrade of a component of a package of Software programs that you licensed as a single product, the Software may be used and transferred only as part of that single product package and may not be separated for use on more than one computer.

COPYRIGHT

The Software is a proprietary product of Sensormatic and is protected by both the United States and International copyright laws.

LIMITED WARRANTY

Sensormatic warrants that the recording medium on which the Software is recorded, and the documentation provided with it, will be free of defects in materials and workmanship under normal use for a period of ninety (90) days from the date of delivery to the first user. Sensormatic further warrants that for the same period, the software provided on the recording medium under this license will substantially perform as described in the user documentation provided with the product when used with the specified hardware.

CUSTOMER REMEDIES

Sensormatic's entire liability and your exclusive remedy under this warranty will be, at Sensormatic's option, to a). attempt to correct software errors with efforts we believe suitable to the problem, b). replace at no cost the recording medium, software or documentation with functional equivalents as applicable, or c). refund the license fee and terminate this agreement. Any replacement item will be warranted for the remainder of the original warranty period. No remedy is provided for failure of the diskette or Software if such failure is the result of accident, abuse, alteration or misapplication. Warranty service or assistance is provided at the original point of purchase.

NO OTHER WARRANTIES

The above warranty is in lieu of all other warranties, express or implied, including, but not limited to the implied warranties of merchantability and fitness for a particular purpose. No oral or written information or advice given by Sensormatic, its representatives, distributors or dealers shall create any other warranty, and you may not rely on such information or advice.

NO LIABILITY FOR CONSEQUENTIAL DAMAGES

In no event will Sensormatic be liable to you for damages, including any loss of profits, loss of data or other incidental or consequential damages arising out of your use of, or inability to use, the Software or its documentation. This limitation will apply even if Sensormatic or an authorized representative has been advised of the possibility of such damages. Further, Sensormatic does not warrant that the operation of the Software will be uninterrupted or error free.

This limited warranty gives you specific legal rights. You may have other rights that vary from state to state. Some states do not allow the exclusion of incidental or consequential damages, or the limitation on how long an implied warranty lasts, so some of the above limitations may not apply to you. Under no circumstances shall Sensormatic's liability for any claim by Customer exceed the purchase price paid by Customer.

GENERAL

If any provision of the agreement is found to be unlawful, void, or for any reason unenforceable, then that provision shall be severed from this agreement and shall not affect the validity and enforceability of the remaining provisions. This agreement is governed by the laws of the State of Florida.

You should retain proof of the license fee paid, including model number, serial number and date of payment, and present such proof of payment when service or assistance covered by this warranty is requested.

U.S. GOVERNMENT RESTRICTED RIGHTS

The software and documentation are provided with RESTRICTED RIGHTS. Use, duplication, or disclosure by the Government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013 or subparagraph (c)(1) and (2) of the Commercial Computer Software—Restricted Rights at 48 CFR 52.227-19, as applicable. Manufacturer is Sensormatic Corporation, 6600 Congress Avenue, Boca Raton, FL, 33487.

TABLE OF CONTENTS

Getting Started **1**
- Overview 1
- Minimum System Requirements 2
- Internet Browser Preparation 3
- Installing and Starting DigiClient 3
  - Installation Process 3
  - Installing DigiAlert 4
  - DigiClient Language Selection and Login 5
  - Standard Login Procedure 5
  - Starting DigiClient 7
- DigiClient Version Upgrades 7
  - Backward Compatibility with DigiMux 8
  - Version Compatibility Notes 8

Using DigiClient **9**
- DigiClient Basic Features 9
- DigiClient Viewing Window 12
- Viewing Live Video 14
  - Selecting the Display 14
  - Assigning a Camera to a Window 15
  - Operating Cameras with Dome Control 16
- Playing Back Video 17
  - Remote Playback Tab 18
    - Playing Back Remote Video 19
    - Downloading Video 20
  - Local Playback Tab 21
    - Playing Back Local .DMV Files 21
    - Playing Back Local .AVI Files 22
  - When Playback or Download Is Completed 22
- Playback Mode 22
- Alarm List and Event Video 24
    - Event Recording and Playback 25
    - Pre-Alarm Availability 26
    - Alarm List Display 26
  - Playing Back Event Video 27
  - Normal and Event Partition Maintenance 28

Configuring the Remote Unit 29
Configuring a Remote Unit 29
Configuration Screen 30
Configuration Sections 30
Applying and Saving Configuration Settings 31
Resetting Configuration Settings 31
Date & Time Settings 32
Monitor Settings 33
Camera Settings 34
Camera Title Section 35
Show Camera Title 35
Camera Title Position 35
Configuration Table 36
Enabling Cameras 38
Record Settings 39
General Recording Parameters 39
Preset Configuration 39
Additional Recording Items 40
Adjusting the Day/Night/Weekend Recording Schedule 42
Recording Quality 42
Recording Parameters 44
Normal and Event Record Rate (IPS) 45
Setting Up a Recording Schedule 46
Data Life Time 46
Event Manager Settings 47
Event Full Screen Response 49
Remote Notification 50
Setting Up Remote Notification 51
E-Mail Notification 52
Pager Number 52
Dial-Out Phone No 53
Setting Up Motion Detection 53
Saving Event Manager Entries 57

Administration Tasks and System Information 59
Administrator Setup 59
Changing Passcodes 59
Covert Cameras and Covert Playback 60
Language and Unit Name 61
LAN Setup 61
RS-485 Settings 62

Dial In/Out 63
Modem 65
Dome Protocol Setup 66
System Information 67
About the Hard Drives 69
Applying Your Settings 69

DigiAlert Event Manager 71
Overview 71
DigiMux Configuration for DigiAlert 71
Introduction to DigiAlert 72
Starting DigiAlert 72
Setting Up DigiAlert 72
DigiAlert Setup Menu 73
Setting Up Alarm Notification 74
Working with Pending Alarms 75
The DigiAlert Window Display 75
The Pending Alarms Window 76
How to Check Pending Alarms 77
To clear the the alarms for specific units 77
To clear the the alarms for all units 77
To inspect and clear the alarms with DigiClient 77
To list the very latest pending alarms 78

Appendices 79
Appendix A: Account Access and Priorities 79
Appendix B: Determining Your PC's IP Address 83
Appendix C: Dial-Up PC Connections 84
Establishing the Dial-Out Connection: DigiMux to a PC 84
Establishing the Dial-In Connection: PC to a DigiMux 86
Using the Dial-Up Connections 88

Index 89

NOTES

GETTING STARTED

OVERVIEW

DigiClient is a remote software application designed to work with DigiMux units. DigiClient enables you to view live and recorded video, to download recorded video, and to receive alarm notification from remote DigiMux units on your personal computer (PC). Using DigiClient, you can also configure the DigiMux unit remotely via a LAN, WAN, Internet, or dial-up modem connection.

DigiClient is a browser-based software application. The DigiMux unit downloads all necessary DigiClient plug-ins to your remote PC when you connect to the DigiMux by entering the unit's IP address in your browser's address field. DigiClient upgrades are also automatically downloaded to the remote computer when subsequent connections are made to the DigiMux unit.

The DigiClient GUI (Graphical User Interface) is similar to the DigiMux front panel and On Screen Display (OSD) menu operation.

DigiAlert, the event manager component of DigiClient, informs you immediately of alarm events on DigiMux units. The DigiAlert icon resides in the system tray and flashes to notify you of alarm events. DigiAlert can also flash a notice on the screen, and/or sound a buzzer when an event occurs. You can start DigiClient from DigiAlert to view the alarm events.

The following tasks can be performed with DigiClient:

- Remote viewing of live video.
- Remote downloading and viewing of recorded video.
- Alarm notification from the DigiMux.
- Alarm list retrieval from the DigiMux.
- Event management via DigiAlert.
- Remote setup and administration of DigiMux features, such as motion detection, record scheduling, and recording parameters (i.e., ips, resolution, etc.)
- LAN or WAN internet connection to DigiMux units.
- Dial-up modem connection to DigiMux units.
- Remote control of dome cameras.
- Remote search of the video database by event, camera, date/time.

- DigiClient Internet connection via a Favorites menu selection in an Internet browser.
- Up to five connections to one DigiMux using DigiClient, including one Admin and four User operators.

MINIMUM SYSTEM REQUIREMENTS

Computer	Pentium-3 600 MHz processor (Pentium Celeron or Pentium-4 preferred; non-Intel processors are not recommended)
Operating System	Windows XP Home Edition and Professional Windows 2000 Professional Windows ME
Internet Browser	Microsoft Internet Explorer version 6.0 and above
RAM	128 MB minimum
Hard Drive	20 MB available for software installation; at least 10 GB recommended for video storage
Monitor	1024 x 768 resolution and capable of displaying 16-bit color

NOTE: An 800 x 600 monitor screen resolution does not allow access to DigiClient features. A 256 color setting does not display video in DigiClient. The minimum monitor screen resolution requirement is 1024 x 768 with 16-bit color.

Video Card	XVGA with 16 MB video RAM
Network Card	10Base-T (10 Mbps) and/or 100Base-TX (100 Mbps) operation; must match the network configuration
High-Speed Internet Access	For WAN application
Dial-up modem	(Optional) The following modems have been tested with DigiMux products: Zoom Telephonics: 56K-USB VoiceFaxModem Model 2985

INTERNET BROWSER PREPARATION

Before you can install DigiClient, make sure that your Internet security setting accepts ActiveX plug-ins. Follow these steps to verify or change your Internet security settings:

1. Start your Internet browser either by clicking on its desktop icon, or by using the **Start** menu to access it.
2. From the browser's Main Menu, select **Tools**, then **Internet Options**.
3. Click the **Security** tab.
4. On the Security screen, click the **Internet** icon in the Web Content Zone.
5. In the Security Level area, click **Custom Level**.

   The Security Settings screen is displayed.
6. Under All ActiveX controls and plug-ins, set all items to **Enable** or **Prompt**.
7. Click **OK** to accept the settings and close the Security screen.
8. Click **OK** to close Internet Options.

When your Internet Security options are set or verified to allow ActiveX plug-ins, you can continue with DigiClient installation.

INSTALLING AND STARTING DIGICLIENT

This section discusses how to install and start DigiClient on your PC. DigiClient is a Microsoft Internet Explorer browser-based application that is installed on your PC via an Internet connection with a remote unit. Thereafter, you run DigiClient on your PC as a Favorites selection from your browser menu.

Installation Process

To install DigiClient on a PC, follow these steps:

1. Start your Internet browser either by clicking on its desktop icon, or by using the **Start** menu to access it.
2. In the Address field at the top of the browser, enter the IP address of the remote unit you are accessing, i.e., 192.168.20.32.

   NOTE: Do not enter leading 0 characters in the address, i.e., if the address is 050.225.060.002, then enter 50.225.60.2.
3. When the connection is made, the necessary DigiClient plug-ins are downloaded and installed on your PC. This process can take up to 30 seconds. The DigiMux Splash screen is displayed.

If you have previously loaded DigiClient software, a confirmation box allows you to confirm a version upgrade. See *DigiClient Version Upgrades* on page 7.

4. Save the IP address of the remote unit as a Favorites item in your web browser to allow easy access at a later time.
5. Before DigiClient is installed in your web browser, the DigiClient License Agreement is displayed.
   - Click **Accept** to continue with the installation. Decline closes the web browser and does not install DigiClient.
   - DigiAlert can be installed on your PC following the DigiClient installation if you check the box next to "Install DigiAlert™ the remote notification manager on your computer?" Otherwise, only DigiClient will be installed.
6. Click **Yes** to confirm the DigiClient installation when the DigiClient Download Confirmation screen is displayed.

DigiClient is fully installed when the Login screen is displayed, or when DigiAlert installation is started. If you are installing DigiAlert, continue with *Installing DigiAlert*, below. To continue with DigiClient login, see *DigiClient Language Selection and Login* on page 5.

Installing DigiAlert

When you enter the IP Address of your DigiMux unit, a version check is initiated to verify whether DigiClient is already installed, and if its version is the same as that stored on that particular DigiMux unit. If DigiClient must be installed, then the DigiClient Splashscreen and End User License Agreement are displayed, and installation proceeds, as discussed in *Installing and Starting DigiClient* on page 3.

If you have checked the box next to "Install DigiAlert™ the remote notification manager on your computer?" then DigiAlert installation immediately follows DigiClient installation and the DigiAlert Installation Welcome Screen is displayed on your computer.

Follow these steps to proceed with the installation:

1. Click **Next** to begin the installation.

   The DigiAlert License Agreement is displayed. Read the agreement carefully.
2. Choose to **accept** or **decline** the terms of the agreement.

   If you choose to accept the terms of the agreement, DigiAlert installation continues and you can proceed to Step 3 of this procedure. If you choose to decline, then you can click **Cancel** to exit DigiAlert Installation. In this case, DigiAlert is not installed.

NOTE: If you decide to abort the DigiAlert installation, you can click **Cancel** at any point in this process.

3. Click **Next** to proceed to the next screen in the installation.

   The Destination Folder screen is displayed.

4. If you prefer to install DigiClient in a location other than the location listed on your screen, click **Change** and enter a new location. If the listed location is acceptable, click **Next**.

   The Ready to Install the Program screen is displayed.

5. If the information on this screen is acceptable, click **Install**. If you wish to change any of the listed information, click **Back** to return to previous screens.
6. When DigiAlert installation is completed, a Thank You message is displayed on the final screen. Click **Finish** to exit the DigiAlert installation wizard.

When DigiAlert is installed and started on your PC, the DigiAlert icon is displayed in the System Tool Tray and a DigiAlert selection is present on the Start/Programs menu on your PC. For more details about DigiAlert, see *DigiAlert Event Manager* on page 71.

DigiClient Language Selection and Login

1. (Optional) Because DigiClient automatically detects the Operating System's language, the DigiClient screen displays the same language as the Operating System. If you wish to override the language of choice, click the desired language: english, german, français, italiano, or español.
2. Login to DigiMux, using the *Standard Login Procedure* described below.

   The Login screen allows you to access DigiClient. You can log in using the Admin or User account. Admin accounts can perform unit configuration remotely, while User accounts have more limited access to the unit. One Admin and up to four Users can access a DigiMux unit at the same time.

   NOTE: Admin accounts include the DigiMux unit. If an Admin account is currently accessing the unit On Screen Display, then you cannot save information as an Admin on DigiClient. In this case, you can continue with User privileges and wait until the unit is free, or log in as User. The DigiMux unit Admin account has priority.

   You can open multiple web browser windows and access one unit from each of those browser windows.

Standard Login Procedure

1. To log in to DigiClient, follow these steps:
2. Enter your **Username** and the default **Passcode**, as follows:

Field	Login Type	
Username	Admin	User

Passcode	1234	4321
Host Port	<port number>	<port number>

3. Click **Connect** and wait a few seconds for DigiClient to log in to the remote DigiMux unit.
4. Click **Live** to display live video.

Connection to the unit is successful when the DigiClient Main Window is displayed and the bar to the left displays the unit and its attached cameras. When you click **Live** on the toolbar, live video is displayed in the Main Window, as shown below.

Figure 1 — DigiClient Main Window with Live Video Displayed

To log off the system, double-click **Exit**. The Main Window closes and DigiClient is disconnected from the DigiMux unit. The browser window is also closed.

Starting DigiClient

When DigiClient is installed in the browser on your PC, you can start DigiClient by:

1. Entering the IP Address for the DigiMux unit in the Address field of the browser or, if you have a Favorite for the unit address, click the **Favorite** entry for your unit.
2. Enter your **User Name** (Admin or User) and **Passcode**.
3. Enter the host port number in the **Host Port** field, if it is not already entered.
4. Click **Connect**.

DigiClient is running when the Main Window is displayed in your browser. You can display live video from the DigiMux by clicking **Live** on the Toolbar.

DIGICLIENT VERSION UPGRADES

When a new version of DigiClient software is available on your DigiMux unit, that new version is automatically installed when you access the unit. If a new version is available, you are prompted to confirm a version upgrade. Follow these steps to upgrade your version: When you click **OK** to agree to install that version, follow these steps:

1. Click **Yes** to agree to version installation.

   The message, "Browser will be closed" is displayed.
2. Click **OK** to close the browser.

   The browser window is closed.

NOTE: DigiMux closes the browser window at this point. The plug-ins are installed the next time you connect to the DigiMux.

3. Start your Internet browser again via the Start menu or by clicking an icon on the desktop.
4. Enter the IP Address of the DigiMux unit in the Address field of the browser or, if you have a Favorite for the unit address, click the **Favorites** entry for your unit.

   A confirmation screen for the DigiClient download is displayed.
5. To confirm the download, click **OK** in the download screen.

   The new DigiClient version plug-ins are installed in your web browser, and the Login window is displayed. To login to the unit, follow the instructions in *Standard Login Procedure* on page 5.

Backward Compatibility with DigiMux

DigiClient is backward compatible with earlier versions of DigiMux software, which means that the latest DigiClient software version can be used with a DigiMux that is operating with an earlier software version.

Any new features available in DigiClient that are not available in older DigiMux units are grayed out in the later version of DigiClient software.

Version Compatibility Notes

In most cases, the DigiClient version on the DigiMux unit matches the version of the plug-ins in your web browser. If the version numbers do not match, the DigiMux attempts to download its version of DigiClient when you next access the unit.

If the version of DigiClient on the DigiMux is more recent, follow the instructions in *DigiClient Version Upgrades*, above.

If the version of DigiClient on the DigiMux is older than the version currently plugged into your browser, the older version cannot overwrite the newer version. You must be a Windows Operating System Administrator to perform an overwrite of this kind.

To operate DigiClient with the version currently installed in your web browser:

- Click **No** when prompted to overwrite the version currently in the web browser.
- Proceed with the DigiClient login and operation (See *Standard Login Procedure* on page 5).

USING DIGICLIENT

This chapter describes how to use the basic features in DigiClient.

DIGICLIENT BASIC FEATURES

When you successfully connect to a unit, icons on the toolbar in the Main Window are active and accessible.

The DigiClient Main Window displays a list of the cameras connected to the remote unit on the left and an array of camera output windows on the right (see Figure 2). You select cameras to view from the camera list on the left, and the output from the cameras is viewed in the grid on the right.

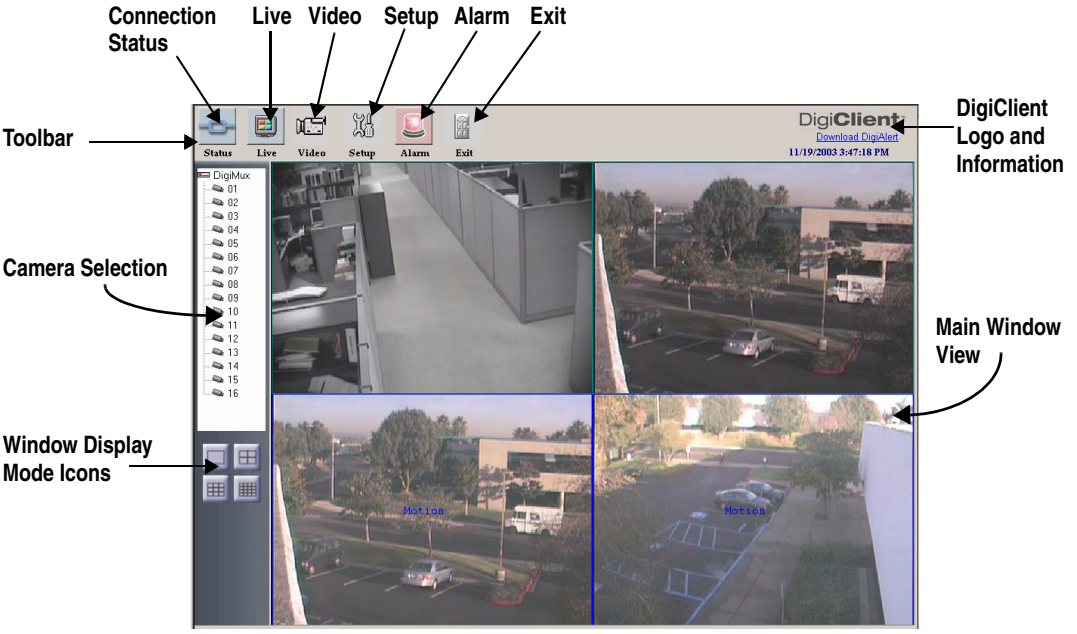

Figure 2 — DigiClient Main Window

A toolbar with icons is displayed at the top of the Main Window. The toolbar's appearance changes when you change function modes (i.e., change to Playback mode). The Toolbar is displayed below.

Figure 3 — DigiClient Toolbar

NOTE: Most of the icons on this toolbar, except for **Exit**, are not active or accessible until DigiClient connects with the remote unit. **Status** displays the connection status only.

The icons associated with the DigiClient Toolbar are described in the following table:

ICON	DESCRIPTION
	Status: When this icon is in the active state, it indicates that the DigiClient is connected to the remote unit. If the icon is not in the active state, it appears as a broken chain, indicating that DigiClient is not connected to the remote unit. If the chain is broken, click the icon to display the Login screen.
	Live: When connected, click to view live video from the remote unit.
	Video: Click to play back previously recorded video that is stored locally (on your PC) or remotely (on the remote unit). Also click to download video to your PC.
	Setup: Click to set up and configure the remote DigiMux unit.
	Alarm: Click to display the Event List from the remote unit. You can choose an event from this list, and then view the recorded event with DigiClient. For more information about the Event List, see *Alarm List and Event Video* on page 24.

ICON	DESCRIPTION
	Exit: Double-click to terminate the DigiClient application.
DigiClient	**DigiClient**: Click to obtain software version information for the DigiClient application.

The DigiClient Camera Selection window, with the Window Display Mode icons, is shown on the left side of the DigiClient Main Window, shown on page 9. Select a camera by clicking the desired camera channel.

To view video from that camera, drag the selected channel to a window in the display. Click **Live** to view live video. For more information, see *Viewing Live Video* on page 14.

The Display Mode icons are described in the following table:

ICON	DESCRIPTION	
	When connected, click a display icon to indicate the number of windows displayed on the Main Window. Click one of the following icons to change the display:	
		Single-window display.
		2 x 2, or four-window display.
		3 x 3, or nine-window display.
		4 x 4, or 16-window display.

The default display is 4 x 4 or 16-window display.

DIGICLIENT VIEWING WINDOW

The DigiClient window aspect ratio can be adjusted to your viewing needs. The aspect ratio depends on the options you select for your browser and the physical size of the browser on your desktop. You can adjust the browser features and size to view the windows with the desired aspect ratio.

The following two scenarios illustrate how you can adjust the browser to allow for various viewing aspect ratios.

DigiClient with a Normal Aspect Ratio (4:3)

This screen shows DigiClient in the Microsoft Internet Explorer 6.x browser with

- Toolbars OFF
- Status OFF
- Address Bar OFF
- Links OFF
- Full Screen ON

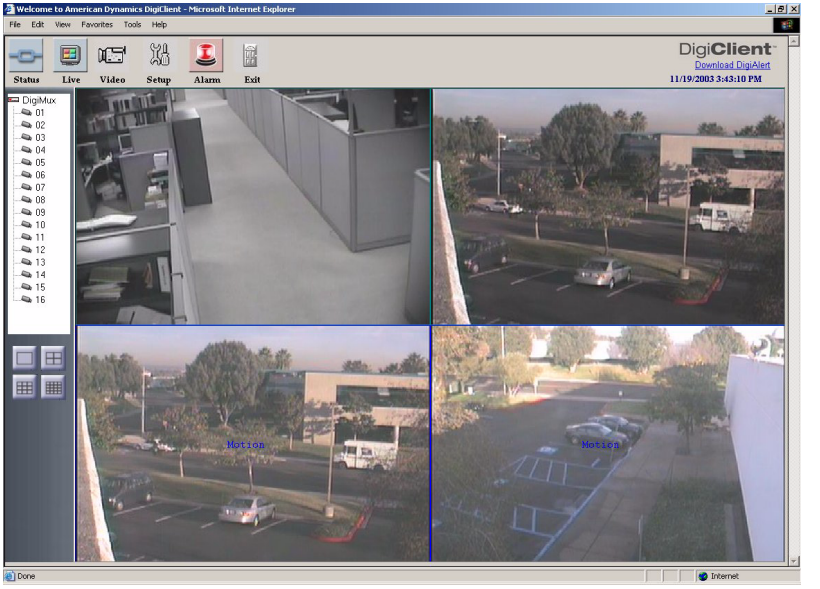

Figure 4 — DigiClient with Normal Aspect Ratio

This configuration maximizes the DigiClient application and minimizes other controls on your screen.

DigiClient with Predominantly Horizontal Aspect Ratio

This screen shows DigiClient in the Microsoft Internet Explorer 6.x browser with:

- Toolbars ON
- Status ON
- Address Bar ON
- Links ON
- Full Screen OFF

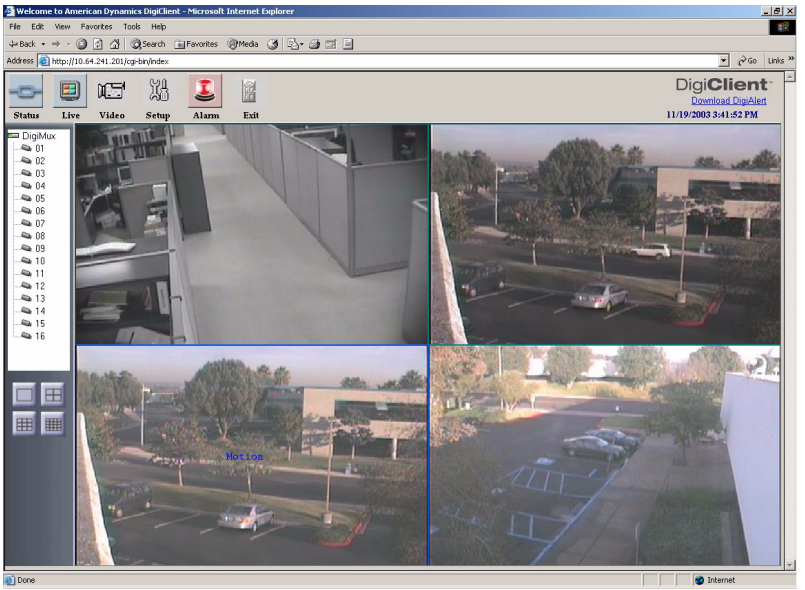

Figure 5 — Predominantly Horizontal Aspect Ratio

This configuration provides all of the browser features with a different aspect ratio. It is the default screen configuration of DigiClient.

DigiClient with Browser Adjustments for Normal Aspect Ratio

This screen shows DigiClient in the Microsoft Internet Explorer 6.x browser with:

- Toolbars ON
- Status ON
- Address Bar ON
- Links ON
- Full Screen OFF

- Browser window resized

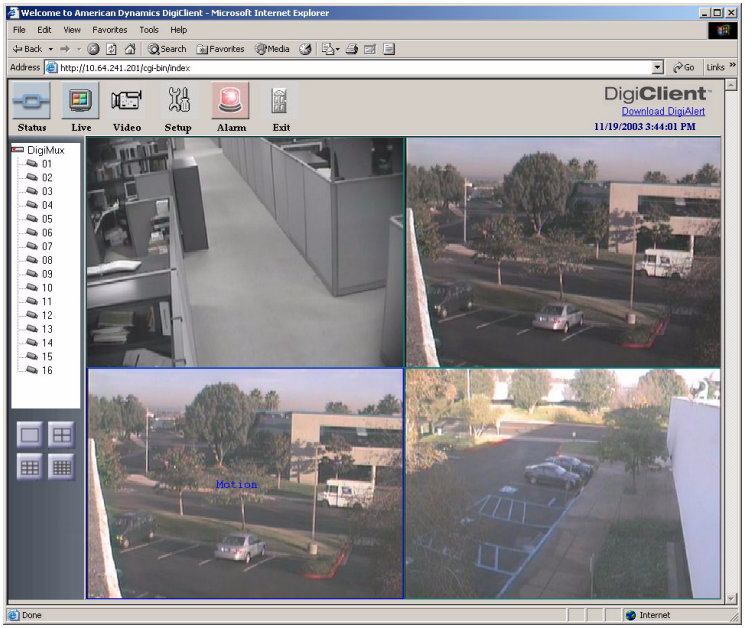

Figure 6 — DigiClient with Normal Aspect Ratio

By adjusting the shape of the browser window, you can adjust the aspect ratio of the images displayed by DigiClient.

VIEWING LIVE VIDEO

You can view live video from the cameras attached to the remote unit by clicking **Live** on the Main Window Toolbar. The view on the DigiMux is displayed on the Main Window. You can further set up the camera display in the Main Window by assigning a camera or cameras to the display.

Selecting the Display

To select the number of display windows, click one of the display icons on the Toolbar. You can select a 1, 4, 9, or 16 camera display.

You can toggle the size of the display area in the Main Window between full screen view and the current view by following these steps:

- To switch to full screen, double click the pane containing the desired view. The view is displayed in single view mode in the browser window.

- Click a **Display Mode** icon to return to the previous viewing mode. The previous viewing mode is displayed in the browser window.

Assigning a Camera to a Window

To assign a camera to a specific window in a display mode, click the camera you wish to view from the camera list to the left side of the Main Window, and hold the mouse button down. Drag the mouse onto the desired display pane or cameo, and then release the mouse button. Click the display mode button that corresponds to the current display mode to view live video from the cameras assigned to the panes or cameos.

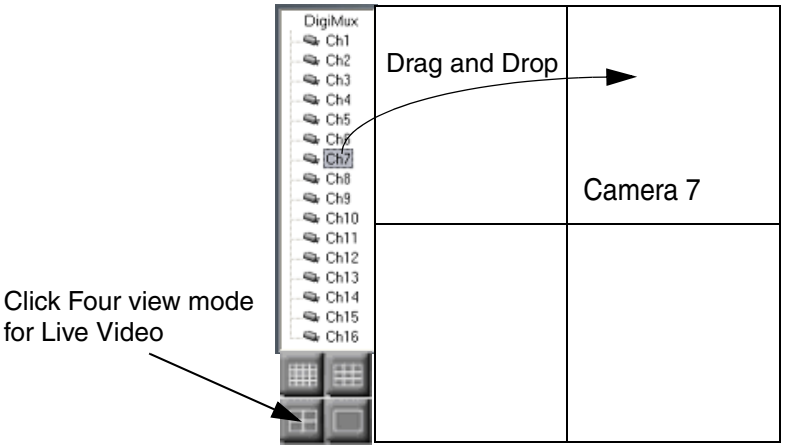

Figure 7 — Drag and Drop Camera for Video Viewing

The display modes have exclusive camera assignments. Assignments you make in a four view display mode are different from those in a nine or sixteen view display mode. Your camera assignment is not saved when you exit DigiClient.

Operating Cameras with Dome Control

Video from cameras equipped with dome control is displayed with a Dome Icon. When you click the lower part of the Dome Icon in single-view display, the Dome Control Panel is displayed, as the following figure illustrates:

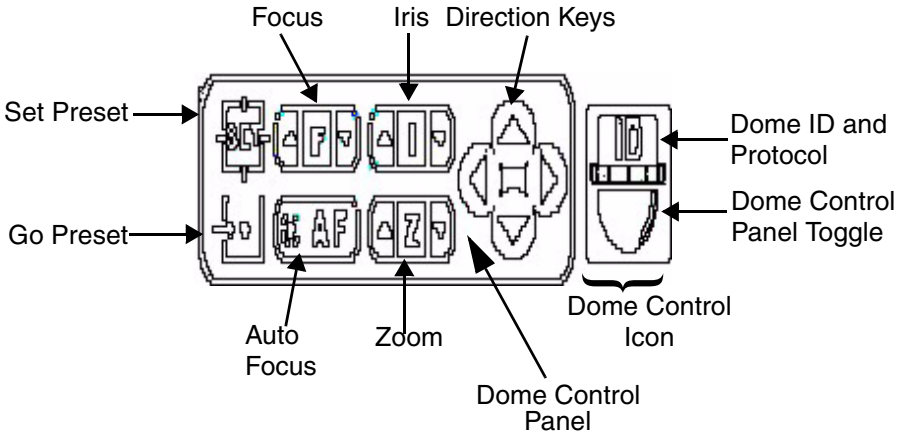

Figure 8 — Dome Control Panel and Icon

NOTE: You must have Admin privileges to change the Dome ID and Protocol.

The items on the Dome Control Panel and the Dome Icon are described in the following table:

ITEM	DESCRIPTION
Focus	Adjusts the camera lens to focus on objects near to or far from the camera. Click **Arrow Keys** to adjust focus.
Iris	Adjusts the camera lens to allow more or less light into the view by opening and closing the iris. Click **Arrow Keys** to adjust the iris.
Direction Keys	Adjusts the position of the camera by panning and tilting the camera. Click **Arrow Keys** in the direction you want to view.
Dome ID and Protocol	Displays and allows you to change the Dome ID and/or Protocol. Click **Dome ID** to view or change the information in these fields.

ITEM	DESCRIPTION
Dome Control Panel Toggle	Toggles the display of the Dome Control Panel, which is shown to the left of the Dome Icon. Click to display or to hide the Dome Control Panel.
Set Preset	Sets up dome control preset positions. DigiMux allows you to set up to 7 preset positions with American Dynamics domes. NOTE: The number of presets available depends on the dome manufacturer. Press the Direction keys to move the Dome to an appropriate position. Press **Set Preset**, select a number from the pull-down list, and name the preset positions.
Go Preset	Calls the camera preset you set up with the **Set Preset** function. **Go Preset** allows you to call the preset for viewing.
Auto Focus	Automatically focusses the camera for a clear view. Click to enable auto focus.
Zoom	Adjusts the camera zoom to view more or less of an area. Click **Arrow Keys** to zoom out or zoom in.

When you are finished with dome control functions on the panel, click the Dome Control Panel Toggle to hide the panel.

PLAYING BACK VIDEO

DigiClient allows you to view recorded video remotely, download video, or play back local video. The remote unit continues to record video while you are playing back video. Click **Video** on the Main Window Toolbar to access the Playback screens.

There are two tabbed screens containing Playback functions: the Remote Playback tab enables you to play back or download video files from the remote unit. The Local Playback tab allows you to play back a video file with DigiClient that was downloaded and stored on your PC's hard disk drive.

Remote Playback Tab

To view or download remote video, click **Video** and then click the **Remote Playback** tab to display the Remote Playback screen (if not already displayed). The table below describes the items in the Remote Playback screen.

REMOTE PLAYBACK ITEM		DESCRIPTION
Camera		Check boxes indicating the camera channel(s) on which video is played back or downloaded.
Clear		Button that clears all of the camera entry selections.
All		Button that selects all of the camera entries.
Select	Selection box with items that enable you to play back or download video.	
	Playback	Selection button enabling you to play back a video file from the selected camera(s) on the remote unit with DigiClient. Playback is described in *Playing Back Remote Video* on page 19.
	Download (.DMV)	Selection button enabling you to download a video clip for a selected time segment to a file with the `.DMV` DigiClient format. If the file consists of video from multiple channels, the video is saved to one file, and the playback is displayed in cameos or panes in the DigiClient Main Window. You can only play back `.DMV` files in DigiClient. For information on downloading video to your local machine, *Downloading Video* on page 20.
	Download (.AVI)	Selection button enabling you to download a video clip for a selected time segment to a file with the `.AVI` file format). If the video is downloaded from multiple channels, the video is saved to one file per channel. You can play back `.AVI` files in Windows Media Player, Real One, or other popular media players. You cannot play back `.AVI` files in DigiClient. Any recorded audio is stored in the `.AVI` files, so playback may include audio output. For information on downloading video to your local machine, *Downloading Video* on page 20.

REMOTE PLAYBACK ITEM		DESCRIPTION
Available Recorded Video	**From**	Display field containing the date and time from which recorded video is available for playback or download.
	To	Display field containing the most recent date and time of available recorded video for playback or download.
Start		Two selection fields indicating the date and time at which the desired video segment began recording. Click the **Date** field to display a calendar. Click the **Left/Right** arrow at the top of the calendar to the desired month, and then click on the desired date. Type the desired numbers in the **Time** field, or use the arrows to select them.
End		NOTE: This field is displayed when you select a **Download** option and enter a file name. See *Downloading Video* on page 20 for more information. Two selection fields indicating the date and time at which to end the video file. Click the **Date** field to display a small calendar. Click the **Left/Right** arrow at the top of the calendar to the desired month, and then click the desired date. Type the desired numbers in the **Time** field, or use the **Arrows** to select them.
Change File		Button that allows you to change the name of the download file, if necessary. Click to open the File Selection box and enter a new path and name for the download file.

Playing Back Remote Video

Follow these steps to play back a remote video segment:

1. Click **Video** to display the Remote Playback screen.
2. Check the numbered box(es) in the Channel area corresponding to the camera(s) associated with the desired video segment(s).
3. Select **Playback** to indicate remote video playback.
4. Select the date and time of the segment to play from the **Start** field.
5. Click **OK** to start the operation, or click **Cancel** to abort.

DigiClient displays the first frame of the desired video and is now in Playback Mode. For information on controlling playback, see *Playback Mode* on page 22.

Downloading Video

Follow these steps to download a video segment from the remote unit to the hard drive on your PC:

1. Check the numbered box(es) in the Camera area that correspond(s) to the camera(s) associated with the desired video segment(s).
2. Select a download type from the Select box:

Download DMV	The DigiMux file type, `.DMV`, can only be played back with DigiClient. Up to 16 channels of video information can be saved to one file. No audio playback is available, but multiple camera video can be played back from the file.
Download AVI	The `.AVI` standard Windows media file type can be played back with Windows Media Player, Real One player, or similar media players. You can download up to 16 channels of video information. If you download multiple channels, each channel is saved to a separate `.AVI` file with the channel number appended to the name, as in `FILENAME[3].AVI`, which contains information from channel 3.

   A file selection screen is displayed. The selected file type extension is the selected default for the file.

3. Enter a name in the File Name field and click **OK**.

   CAUTION: A file with the same name as a file you are downloading will be overwritten without any notification.

   If you want to save video data to your PC, avoid naming files with the same name unless you intend to overwrite the previous video file.

4. Set the duration of the downloaded video by indicating the **Start** and **End** times of the desired video segment.

   NOTE:The End Time and Date fields are not displayed until the file name is selected.

   The approximate size of the downloaded video file(s) is displayed to the right of the Start and End times.

   If you decide to change the name of the file you are downloading, click **Change File** and enter a new file name. The new file name is then used with the download.

5. Click **OK** to start the operation, or click **Cancel** to abort.

DigiClient downloads the desired video information to your PC. During download, a progress box is displayed. The progress box indicates the size of the file or files you are downloading, the channels from which video is downloaded, and the duration of the video.

6. When the download process ends, the message "Download Complete" is displayed. To stop a download at any time during the download, click **Stop** to close the progress box.

The downloaded video is now located on your PC. It can be played back using the Local Playback Tab, as described in the next section, or played back with a media player.

Local Playback Tab

The Local Playback tab allows you to play back DigiClient (.DMV) video files that you downloaded and stored on your PC's hard drive. DigiClient does not need to be connected for you to playback a local video file. See *Playing Back Local .DMV Files*, below, for information on playing back these files. The .AVI video files are played back using Windows Media player, or other media players. See *Playing Back Local .AVI Files* on page 22 for information on playing back .AVI files.

NOTE: A downloaded .DMV video file must be available to use this feature. Follow the steps in *Downloading Video* on page 20 to download a .DMV video clip.

Click the **Local Playback** tab in the Playback screen to display the Local Playback screen. This screen contains a single button, Open.

Playing Back Local .DMV Files

To play back a downloaded .DMV file with DigiClient, follow these steps:

1. Click **Open** in the Local Playback screen. A file selection screen is displayed.

   The file selection screen lists only .DMV file selections. See *Playing Back Local .AVI Files* in the next section for information on .AVI file playback.

2. Select the video file to play back and click **OK**.
3. Click **OK** in the Local Playback Screen to start the operation, or click **Cancel** to abort.
4. View the video playback using the Playback controls.
5. Click **Live** to return to live video.

When you click **OK** on the Local Playback screen, DigiClient is in Playback Mode. Use the Playback buttons to control video playback. For information on the Playback controls, see *Playback Mode* on page 22.

Playing Back Local .AVI Files

To play back a downloaded `.AVI` file in a media player, follow these steps:

1. Start your Windows Media Player, Real One player, or other media player from a tool bar, icon, or the Start menu.
2. Select **File** and then **Open**.

   Some media players allow you to browse for the file.
3. Select the `.AVI` file you want to play, and then click **Open**.

When you click **Open**, the selected file plays back in the media player. Video from only one channel is played back because the files for each channel are separate.

When Playback or Download Is Completed

When a playback or download operation is completed, you can return to viewing live video by clicking **Live** on the Main Window Toolbar.

You can also leave DigiClient by double-clicking **Exit** on the Main Window Toolbar.

PLAYBACK MODE

When you select the desired local or remote video segment to play back, DigiClient is in Playback Mode. In Playback Mode, the Playback controls and indicators are displayed on the Toolbar to the right of the standard icons, as shown in the figure below.

Playing Back Video, Running | Playing Back Video, Paused

Figure 9 — Playback Controls

The Playback controls and indicators are described below:

CONTROL	NAME	DESCRIPTION
	GOTO	Searches the recorded video using a specific time and date.
	Go to Beginning	Returns to the very first image of the recorded video.
	Fast Rewind	Plays the recorded video in reverse. Click repeatedly to select the rewind speed: 1x, 4x, 8x, 16x, and 32x.
	Playback	Plays the recorded video. This icon is displayed when the playback operation is paused.
	Fast Playback	Plays the recorded video forward. Click repeatedly to select the playback speed: 1x, 4x, 8x, 16x, and 32x.
	Go to End	Forwards to the last image of the recorded video.
	Pause	Pauses the playback operation. This icon is displayed while playing back the video.
	Stop	Stops playing the recorded video.

ALARM LIST AND EVENT VIDEO

The Alarm List contains information about the alarm events that your unit recorded. Up to 2000 alarm events can be listed in the Alarm List.

The Alarm List can display only the first 256 pages of events. As some events are deleted, others are displayed. Events in the alarm partition are displayed first on the list, so if the Alarm List has more than 2000 events, all events displayed on the list are from event partition.

The Alarm List contains a history, or record, of events that have triggered alarms on the DigiMux. If you have not set up an event partition, the events are stored in the normal partition with all other video. These events are displayed in the Alarm List only once. If an event partition is set up, then the events are stored in the normal partition with all other video, and a copy of the event is made in the event partition along with any specified pre-alarm video. The pre-alarm video is copied into the partition after the event is copied there. The Alarm List displays events from the event partition with an "E" next to them, and displays the event again because the video for that event also resides in the normal partition.

NOTE: If one of the partitions (event or normal) is full and record is set to linear mode, the pre-alarm video will not be copied into the event partition.

The figure below shows the normal and event partitions, and how events are stored and copied.

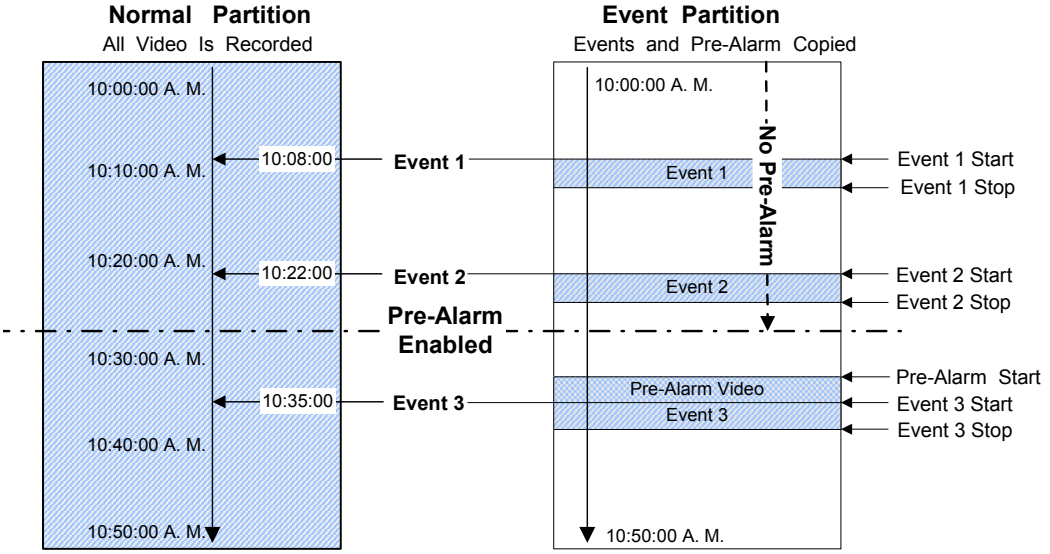

Figure 10 — Normal and Event Partition Operation

Event Recording and Playback

All video is recorded to the normal partition as indicated in your record setup. When an event occurs, the event video during the response duration along with any pre-alarm video, if enabled, is copied to the event partition. If it is necessary to purge the normal partition, the event video is preserved in the event partition until you can export it and purge the event partition.

When you play back an event from the normal partition, playback starts from the time the event happened and continues until the end of the available recorded video. If you playback the same event from the event partition, playback begins with pre-alarm video (if enabled) and ends after the response duration expires. For example, if an event of 2 minutes duration is played back from the event partition, and a 1 minute pre-alarm is set, then the playback for the event is 3 minutes in length. Playback from the normal partition is not limited to the response duration.

Pre-Alarm Availability

Pre-alarm video is contingent on normal video that is recorded to the normal partition. When an alarm is triggered, the pre- and post-alarm video for the alarm event is copied from the normal partition to an existing event partition. The pre-alarm and alarm duration setup determine the length of this video segment.

Pre-alarm video will not be available in the following circumstances:

- Right after DigiMux is powered up
- Record is set in linear mode and the normal partition is full
- Normal record is OFF and the DigiMux is setup for alarm record only
- Event partition is full or set to 0%
- Data Life Time is turned ON and the event time frame occurs prior to the specified time and date.

Alarm List Display

The Alarm List displays each event by its number, the date and time of the event, the status of the event, the camera channel on which the event occurred, and the partition into which the event was recorded. The Alarm List is displayed in the following figure:

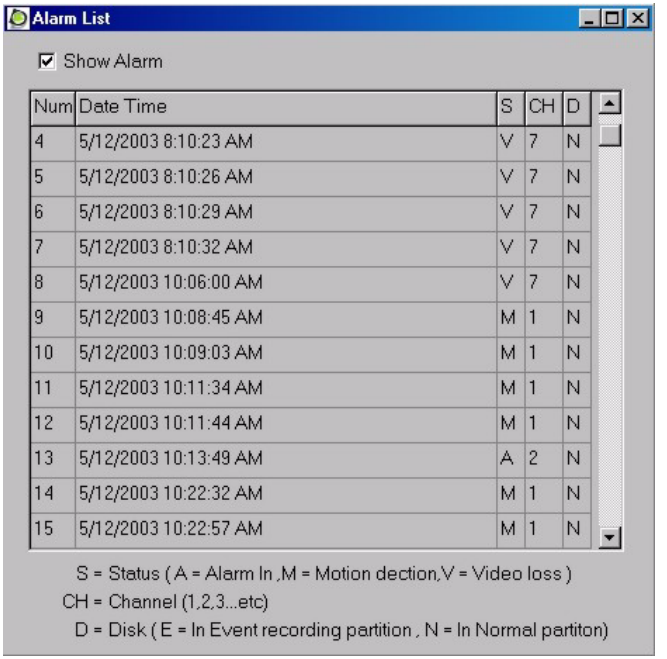

Figure 11 — Alarm List

Use the scroll bar on the right of the Alarm List to scroll through the events. The following table describes the information found in the Alarm List:

COLUMN	DESCRIPTION	
Num	The number of the event, indicating the order in which it occurred.	
Date/Time	The date and time at which the event occurred.	
S (Status)	The status of alarm detection, or the type of event detected.	
	A	Alarm In event
	V	Video Loss event
	M	Motion Detection event
CH (Channel)	The camera channel on which the alarm was detected.	
D (Disk)	The partition on the hard disk where the event is recorded.	
	E	Event is recorded on the Event Partition
	N	Event is recorded on the Normal Partition

Playing Back Event Video

To perform a remote event video playback, you select an event from the Alarm List. Follow these steps to play back a specific event:

1. In the Main Window Toolbar, click **Alarm**.

   The Alarm List is displayed.
2. Scroll through the events in the Alarm List and highlight the event of interest.
3. Double-click the desired event.

DigiClient displays the first frame of the desired event video and is now in Playback Mode. For information on Playback Mode, see *Playback Mode* on page 22. The event video with the type of event, date, and time is displayed in the panes on the Main Window.

Normal and Event Partition Maintenance

You can choose to use and maintain an Event Partition on the DigiMux unit. This is an area on the hard drive where alarm events are exclusively recorded. Regular maintenance of the Events Partition includes purging the partition when it is filled to capacity. The rate at which the partition fills depends on the selected recording quality for alarm event video and the size of the partition. Remember to download any important data, or export important data, from the unit before you purge data. Data export is performed only from the DigiMux unit (see the *DigiMux User's Manual* for details).

The Hard Disk Drive (HDD) on the DigiMux unit contains a video database into which all video is recorded. Partitioning the HDD into normal and event partitions, or changing the size of the event partition, can affect your video database.

NOTE: Purging of all recorded video is highly recommended every time the HDD partition is changed in order to avoid record database corruption.

Remember to export any important data before you change the size of the event partition. After you change the size of the (event) partition, please purge video from both the normal and event partitions. **Formatting the HDD is a preferable alternative to purging.** Frequent purging of recorded video during maintenance review is also recommended.

If you are logged in as Admin, you can purge the Events Partition when needed. See *Additional Recording Items* on page 40 for information about purging the Events Partition. The hard disk drive can only be formatted by an Administrator via the DigiMux unit's Front Panel.

NOTE: Purging removes data from your drive, but does not reformat the drive. For information on formatting the hard disk drives, see the *DigiMux User's Manual*.

CONFIGURING THE REMOTE UNIT

This chapter describes how to configure a remote unit using the DigiClient Configuration screen.

NOTE: The Admin's passcode is required to configure the remote unit.

CONFIGURING A REMOTE UNIT

The Setup icon on the Toolbar enables you to configure a DigiMux remotely. When you click **Setup**, the Configuration screen is displayed. The following figure shows the Main Menu section of the Configuration screen:

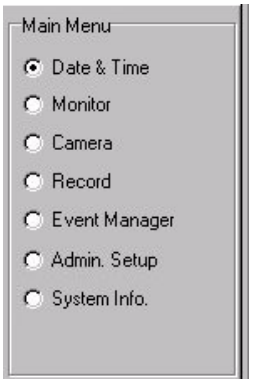

Figure 12 — Main Menu in the Configuration Screen

The Administrator can access each area of the Configuration screen by clicking buttons on this Main Menu. When you select an item on this menu, the screen displays the configuration settings for that item. The items listed on this menu correspond to similar configuration menus on the remote unit.

User accounts can access and view many parts of the Configuration screen, but cannot make changes to the configuration. The following screens are only accessible to the Administrator:

- Record
- Event Manager
- Admin. Setup

For more information on User account accessibility, see *Appendix A: Account Access and Priorities* on page 79.

CONFIGURATION SCREEN

This chapter describes the Configuration screen sections. It also describes functions that are common to all screen sections. These common functions enable you to use the settings you selected, or to reset the remote unit to previous settings.

Configuration Sections

The following sections in the Configuration screen describe configurable items on the remote unit:

CONFIGURATION SECTION	DESCRIPTION
Date & Time (*page 32*)	Configures the date- and time-related items on the remote unit.
Monitor (*page 33*)	Configures Call Monitor-related items on the remote unit.
Camera (*page 34*)	Configures camera titles and other camera-related items on the remote unit.
Record (*page 39*)	Configures record-related items on the remote unit, such as event and audio recording parameters. NOTE: This section is only accessible when an Admin passcode is entered.
Event Manager (*page 47*)	Configures the way in which the remote unit handles events. NOTE: This section is only accessible when an Admin passcode is entered.
Admin. Setup (*page 59*)	Configures settings available to the Administrator for setup, such as passcodes for the system. NOTE: This section is only accessible when an Admin passcode is entered.
System Info. (*page 67*)	Displays current software information. All of the information in this section is read only and cannot be changed.

Applying and Saving Configuration Settings

Each section in the Configuration screen contains three buttons that enable you to save or cancel your settings. You can save just the settings in the section of the screen in which you are working, or you can save all the settings in the screen. The buttons are described below:

BUTTON	DESCRIPTION
Save	Click to save the settings in the section of the Configuration screen that is currently displayed and apply them to the remote unit. NOTE: Admin's passcode required.
Save All	Click to save all of the settings in the Configuration screen and apply them to the remote unit. NOTE: Admin's passcode required.
Close	Click to close the Configuration screen without saving any changes.

NOTE: If you are logged in to DigiClient as Admin and another Administrator has accessed the DigiMux unit at its On-Screen Display menu, the message, "There is another Administrator online" is displayed. You cannot save your changes until the Administrator on the unit has exited the unit's On-Screen Display menu.

Resetting Configuration Settings

At the bottom of the Configuration screen are buttons that control the administration of configuration settings. Whenever you must reset the remote unit to either the Administrator's configuration or the factory settings, click the corresponding button. The administrative buttons are displayed at the bottom of the screen in each section.

The Configuration screen administrative buttons are described below:

BUTTON	DESCRIPTION
Administrator Setting: Save	Click **Save** to save the user settings for the DigiMux to the unit's on-board non-volatile memory. NOTE: Admin's passcode required.

BUTTON	DESCRIPTION
Administrator Setting: Load	Click **Load** to load the DigiMux current user settings from the unit's memory. NOTE: Admin's passcode required.
Factory Setting: Load	Click **Load** to load the Factory Default setup configuration from the unit's read-only memory. NOTE: Admin's passcode required.

DATE & TIME SETTINGS

The Date & Time section of the Configuration screen enables you to set dates, times, date display, time format, and RS-485 time calibration on the remote unit. Click **Date & Time** on the Main Menu to display the Date & Time screen.

Configurable items in the Date & Time section are described in the table below:

TIMER SECTION	DESCRIPTION
Date & Time	Sets the date and time for the remote unit. Use the keyboard to enter the date and time information into the fields directly. When you click the **Arrow** next to the Date field, a calendar is displayed that you can use to select the date. NOTE: Admin's passcode required.
Date Display Mode	Sets the display mode for the remote unit. The date is comprised of Day (D), Month (M), and Year (Y), and is displayed on the unit with the time in 1 or 2 rows. Select one of the following date display modes from the pull-down menu: D/ M/ Y 2 Rows — D/ M/ Y 1 Row M/ D/ Y 2 Rows — M/ D/ Y 1 Row Y/ M/ D 2 Rows — Y/ M/ D 1 Row The default format is **M/D/Y 2 Rows** in NTSC format, or **D/M/Y 2 Rows** in PAL format.

TIMER SECTION	DESCRIPTION
Time Format	Sets the format for time that is displayed on the remote unit, based on 24 hour or 12 hour clocks. Select 24 Hours or 12 Hours from the pull-down menu. The default setting is **24 Hours**.
RS-485 Time Calibration	Synchronizes devices connected to the RS-485 bus with the DigiMux. Click **RS-485 Time Calibration** to synchronize all DigiMux timers. NOTE: Admin's passcode required.

When you complete your entries, take one of the following actions:

- Click **Save** to save the settings in this screen section.
- Click **Save All** to save all settings in the Configuration screen.
- Click **Cancel** to abort and leave all settings unchanged.

MONITOR SETTINGS

The Monitor section of the Configuration screen enables you to configure Call monitor-related items on the remote unit. These items include the Call monitor's dwell time and the Call monitor schedule. Click **Monitor** to display the Monitor screen.

Configurable items in the Monitor section are described in the table below:

MONITOR SECTION	DESCRIPTION
Call Monitor Dwell	Sets the dwell time on the Call Monitor in seconds. Dwell time is the amount of time the Call Monitor displays a camera channel before switching to the next channel. The default dwell time is **3 seconds**. To enter the dwell time, click the pull-down list and enter a value in the range of 0 to 255 for the dwell time. NOTE: A 0 value for Call Monitor Dwell in DigiClient is interpreted by the DigiMux unit as OFF.

MONITOR SECTION	DESCRIPTION
Call Monitor Schedule	Sets the switching sequence on the Call Monitor. The switching sequence is the order in which video is displayed from each camera channel on the monitor. NOTE: Admin's passcode required. Click the pull-down list for each position (e.g., 1st, 2nd, etc.) and select the camera channel to be displayed (CH1, CH2 through CH16). There are 24 positions in a Call Monitor sequence pattern. If you select a "blank" (no value), then no video is added to the sequence.

When you complete your entries, take one of the following actions:

- Click **Save** to save the settings in this screen section.
- Click **Save All** to save all settings in the Configuration screen.
- Click **Cancel** to abort and leave all settings unchanged.

CAMERA SETTINGS

The Camera section of the Configuration screen allows you to configure camera-related items on the remote unit. This section consists of Camera Title and Camera Configuration Table sections.

NOTE: These settings do not affect DigiClient except for camera titles. The location of the titles remains the same, and the titles are always displayed in your browser window.

Camera Title Section

The Camera Title section allows you to give each camera a title, or name. The title can be up to 12 characters long and is displayed on the remote unit's main monitor and in the DigiClient Main Window.

To enter a camera title, click in the numbered field for the desired camera and enter a name from the keyboard. The fields are titled 01 to 16. The number of cameras you name depends on your unit, which can have 04, 09 or 16 channels. You can provide more descriptive titles, such as LOBBY, WAREHOUSE, or MEETING1 for your cameras.

Show Camera Title

The Show Camera Title pull-down list allows you to determine whether camera titles are displayed on the remote unit's main monitor. **ON** displays the camera titles. **OFF** does not display them.

Camera Title Position

The Camera Title Position pull-down list allows you to determine the location of the camera titles that are displayed on the remote unit's main monitor. The selectable positions are listed in the following table:

Top-Left (TL)	Displays the camera title at the top and left of the video display on the screen.
Top-Right (TR)	Displays the camera title at the top and right of the video display on the screen.
Bottom-Left (BL)	Displays the camera title at the bottom and left of the video display on the screen.
Bottom-Right (BR)	Displays the camera title at the bottom and right of the video display on the screen.

Configuration Table

The Configuration Table section enables you to configure each connected camera on the DigiMux remotely.

NOTE: Admin's passcode is required to access the table.

Default settings are displayed in the Configuration Table shown below:

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Video	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Covert	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Termination	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Gain Control	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Alarm In Type	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Day: Alarm In	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Day: Motion	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Night: Alarm In	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Night: Motion	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Wkd: Alarm In	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Wkd: Motion	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Alarm Out	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G

To change any setting, right-click the desired camera's item entry. A pull-down menu is displayed. Select the desired entry from the pull-down menu.

You can select multiple camera entries in the same row by dragging the mouse and highlighting the desired entries. Right-click to choose a setting for the selected cameras.

Each item in the Configuration Table is described in the following table:

CONFIGURATION TABLE	DESCRIPTION
Video	Used to manually disable channels to which no camera or other input is connected (A = camera installed, N = no camera installed, **A** = default). When a channel is disabled, or "uninstalled," all related functions for that channel are disabled in other setup menus, e.g., video loss detection, motion detection, etc., and a red "X" is displayed over the camera in the Camera Selection pane on the left. Disabled channels are skipped by the DigiMux, so the remaining cameras are recorded more frequently. Right-click the entry to change the setting.
Covert	Allows chosen inputs to be covert (invisible) on the DigiMux Monitor, while continuing to record those inputs (Y = camera covert, N = camera noncovert, **N** = default). Right-click the entry to change the setting.
Termination	Used to enable/disable the 75 Ω termination resistor inside the DigiMux for each camera channel (Y= termination resistor enabled, N = termination resistor disabled, **Y** = default). If the camera loop-out connector is not in use, the termination resistor should be enabled for correct signal termination; this is the default condition. Otherwise, the terminal resistor should be disabled. Right-click the entry to change the setting.
Gain Control	Used to set the video input gain for each camera. The value ranges from 0 to 9 (**5** is the default). Right-click the entry and enter the value via the keyboard.
Alarm In Type	Used to set the two alarm pins in the external I/O connector. An alarm pin is set to either Alarm N.O. (O = Open) or Alarm N.C. (C = Closed). The default is **O**. Right-click the entry to change the setting.
Day: Alarm In	Used to enable or disable each Alarm In pin during the Day schedule (Y= enabled, N = disabled, **Y** = default). Right-click the entry to change the setting.
Day: Motion	Used to enable or disable motion detection for each camera during the Day schedule (N = No, 1 = Condition 1, 2 = Condition 2, **1** = default). Right-click the entry and enter the value via the keyboard.

CONFIGURATION TABLE	DESCRIPTION
Night: Alarm In	Used to enable or disable each Alarm In pin during the Night schedule (Y= enabled, N = disabled, **Y** = default). Right-click the entry to change the setting.
Night: Motion	Used to enable or disable motion detection for each camera during the Night schedule (N = No, 1 = Condition 1, 2 = Condition 2, **2** = default). Right-click the entry and enter the value via the keyboard.
Wkd: Alarm In	Used to enable or disable each Alarm In pin during the Weekend schedule (Y= enabled, N = disabled, **Y** = default). Right-click the entry to change the setting.
Wkd: Motion	Used to enable or disable motion detection for each camera during the Weekend schedule (N = No, 1 = Condition 1, 2 = Condition 2, **2** = default). If you select N, motion detection is restricted. Right-click the entry and then change the value via the keyboard.
Alarm Out	Used to enable or disable an alarm type for Alarm Out The alarm types are A = Alarm A, B = Alarm B, C = Alarm C, G = Global Alarm, and N = No Alarm). The default setting is **G** = Global Alarm.

When you complete your entries, take one of the following actions:

- Click **Save** to save the settings in this screen section.
- Click **Save All** to save all settings in the Configuration screen.
- Click **Cancel** to abort and leave all settings unchanged.

Enabling Cameras

DigiMux has an aggregate recording rate over all channels of 60 ips NTSC (50 ips PAL). It also autodetects cameras that are installed on the unit. The recording rate is distributed across all auto-detected cameras on enabled channels. The Active Window displays live video at 30 ips NTSC (25 ips PAL) and other channels are displayed at a reduced rate.

Most cameras are set to record automatically and continuously. However, you may not want to record video from a camera during maintenance or adjustment. You may also want to disable a camera that is located in an area where recording is not presently desired, such as specific conference room's camera during a meeting.

If you do not wish to view or record video from a camera, then disable it by setting Video to N for this camera in the Configuration Table Video Setup Screen. See *Configuration Table* on page 36 for more information.

RECORD SETTINGS

The Record section of the Configuration screen allows you to set record-related items on the remote unit, such as event and audio recording, and recording schedules. Click **Record** on the Main Menu to access the Record section of the Configuration screen.

NOTE: Admin's passcode is required to use Record.

The Record section has two subsections: general recording parameters are displayed in the upper portion of the screen, and record scheduling parameters are displayed in the main body of the screen.

General Recording Parameters

The top area in this section contains items that allow you to adjust general recording, such as pre-alarm time, circular or linear recording, or set up an event recording partition. It also includes items used to purge, or delete, recording data.

Preset Configuration

The Preset Configuration item allows you to select a profile, or combination of settings, that represent the quality and recording rate of recorded video. There are three preset conditions: **Best Quality**, **Standard**, and **Extended Record**. The default preset condition is **Best Quality**.

These profiles overwrite any previously set recording quality and rate settings. If you want to define the recording quality and rate yourself, you must select **OFF** to indicate that you do not want a preset configuration.

NOTE: If you enable other settings, such as a custom Day, Night, or Weekend schedules, you must select a Preset Configuration value of **OFF** to enter the schedule information.

Preset Configuration selections are described in terms of relative recording time, recording quality, and recording rate in the table below. (For information on recording quality settings, see *Recording Quality* on page 42). The higher the recording quality, the more frames per second recorded, and the more space required for video storage.

PARAMETER	RECORD QUALITY SETTING	RECORD RATE SETTING (IPS)	RECORD SCHEDULE
Best Quality	Superior	60 NTSC (50 PAL)	Default Day, Night, and Weekend
Standard	Medium	30 NTSC (25 PAL)	Default Day, Night, and Weekend
Extended Record	Standard	5 NTSC (25 PAL)	Default Day, Night, and Weekend
OFF	User Selected	User Selected	User Selected

Additional Recording Items

Recording parameters that can be set remotely are described in the following table:

RECORDING PARAMETER	DESCRIPTION
Pre-Alarm Recording	Sets the amount of recorded video, in minutes, occurring prior to an alarm event that is saved with the alarm event. You can select 0, 5, 10, 15, 30, or 45 seconds, or 1, 2, 3, 4, or 5 minutes of pre-alarm video. The default setting is **0 seconds**, and the maximum is 5 minutes of pre-alarm recording.
Circular Recording	Sets the recording mode to circular or linear mode. **ON** enables circular mode. **OFF** enables linear mode. In circular mode, the remote unit automatically begins to replace the earliest recorded video with newly recorded video when the hard disk is full. In linear mode, the remote unit stops recording when the hard disk is full. The default is **ON** (circular recording).
Event Partition Full Alarm	When set to **ON**, triggers an alarm when the Event Partition is full. When this alarm occurs, you can export important event data and purge the drive for further event recording. When set to **OFF**, no alarm is triggered. The default setting is **ON**.

RECORDING PARAMETER	DESCRIPTION
Normal Partition Full Alarm	When set to **ON**, triggers an alarm when the Normal Partition is full. NOTE: This item can be enabled only if Circular Recording is **OFF**. When this alarm occurs, you can export important data and purge the drive for further recording. When set to **OFF**, no alarm is triggered. The default setting is **OFF**.
Audio Recording	Enables audio input recording to accompany the video recording when set to **ON**. **OFF** indicates no audio recording. Recorded audio is available with video playback from the DigiMux unit when powered speakers are attached and audio capability is enabled. One channel of audio may be recorded. See the *DigiMux User's Manual* for details.
Event Record Partition	Indicates a specified percentage of the hard drive that is to serve as the Event Record partition of the record database. This portion of the database stores event video only. Event Active in the Scheduling area of Record Settings should be set to Both, Motion, or Alarm for this partitioning to be useful (see *Additional Recording Items* on page 40). The default value is **0%**. For more information about how events are recorded, see *Alarm List and Event Video* on page 24.
Data Life Time	Enables or disables Data Life Time, which allows deletion of selected video data. See *Data Life Time* on page 46 for more information.
Purge Recording Data	Allows you to delete the Normal or Events record databases. Click **Normal** to delete the Normal database entries, or **Events** to delete the Events database entries. A confirmation box is displayed. Click **OK** to proceed with the purge, or **Cancel** to abort the process. NOTE: Deleting recording data completely removes it from your database.

NOTE: Purging removes data from your drive, but does not reformat the drive. For information on formatting the hard disk drives, see the *DigiMux User's Manual*.

Adjusting the Day/Night/Weekend Recording Schedule

The recording schedule on the DigiMux is adjustable from the Record section of the Configuration screen. Day, Night, and Weekend schedules are set in this area of the screen. The items in this area change with the selected schedule. To establish a schedule, select **OFF** for Preset Configuration, and then select the schedule to set:

BUTTON	SCHEDULE DESCRIPTION
Day	Indicates the normal weekday schedule during daily operating hours.
Night	Indicates a Monday through Friday evening schedule, starting at the end of the Day schedule and ending at the beginning of the Day or Weekend schedule.
Weekend	Indicates times outside of the Monday through Friday schedule. Normally, it starts at the end of the last weekday Night schedule and ends at the beginning of the Day schedule.

Parameters set in each of these schedules are described in the table below. The Night and Day schedules are similar; the Weekend schedule is tailored for weekends and holidays, when operating hours may be different.

NOTE: For continuous recording, there should be no gap between schedule times. The Stop Time from one schedule should be the same as the Start Time of the next schedule (i.e., Night Stop Time of 6:00 coincides with Day Start Time of 6:00). No video is recorded during schedule gaps. For example, if Day Stop Time is 18:00, and the Weekend Start Time is FRI 19:00, no video is recorded between 18:00 and 19:00 on Friday.

Recording Quality

The scheduling items on the Record menu, Night, Day, and Weekend, allow you to select recording quality for normal and event recording. These menu items are accessible when you select **OFF** for Preset Configuration. Recording quality is associated with the compression of the image as it is stored on your drive.

There are five different record quality settings: Superior, High, Medium, Standard, and Basic. Each of these quality settings is described in the following table:

QUALITY SETTING	DESCRIPTION
Superior	This setting provides the best quality video recording. Use this setting if you are most concerned about details of the images and least concerned about the record duration. The average file size is 28 KB NTSC (33 KB PAL). Superior is used with the Best Quality preset configuration setting. **Best Quality** is the default preset configuration setting.
High	This setting provides acceptable image quality, but not as good as the Superior setting. Use this setting for satisfactory recorded images and increased record duration. The average file size is 19 KB NTSC (22 KB PAL).
Medium, **Standard**, **Basic**	These settings do not provide a high level of detail in images recorded, but recording duration is increased. Use one of these settings when your concern is primarily extended recording duration, not image detail. The average file sizes for these selections are: • Medium, 15 KB NTSC (18 KB PAL) Medium is used with the Standard preconfiguration setting • Standard, 12 KB NTSC (14 KB PAL). Standard is used with the Extended Record preconfiguration setting. • Basic, 10 KB NTSC (12 KB PAL)

Record duration times are based on actual tests. Performance may vary depending on specific installations and use. File sizes are averages and actual file sizes may vary, depending on factors such as scene complexity. Audio recording adds 8 KB per second to the file size.

Recording Parameters

The following table describes the parameters used to define Day, Night, and Weekend schedule sequences:

PARAMETER	DESCRIPTION
Start Time	Determines the beginning of recording for Day, Night, or Weekend schedule sequences. Time is indicated in 15 minute increments. Note that the Start and Stop times for each schedule sequence do not overlap. Video is not recorded during schedule gaps. The Weekend schedule indicates the time and day on which the weekend begins, i.e., **FRI 18:00**. This value specifically indicates where the regular Day and Night scheduling ends, and Weekend recording begins.
Stop Time	Determines the end of recording for Day, Night, or Weekend schedule sequences. Time is indicated in 15 minute increments. The Weekend schedule indicates the time and day on which the weekend ends, i.e., **MON 06:00**. This value specifically indicates where the regular Day and Night scheduling begins, and Weekend recording ends.
Normal Rec IPS	Sets the normal recording rate in IPS (pictures per second). The default recording rate is **30 IPS** NTSC (25 IPS PAL). See *Normal and Event Record Rate (IPS)* on page 45 for more information.
Normal Rec Quality	Sets the recording quality for normal recording. Selections are Basic, Standard, Medium, High, and Superior quality. The higher the quality selected, the more disk space required. The default is **Standard** quality.
Event Rec IPS	Sets the alarm event recording rate in IPS (pictures per second). The default recording rate is **30 IPS** NTSC (25 IPS PAL). See *Normal and Event Record Rate (IPS)* on page 45 for more information.
Event Rec Quality	Sets the recording quality for alarm event recording. Selections are Basic, Standard, Medium, High, and Superior quality. The higher the quality selected, the more disk space required. The default is **Standard** quality.

PARAMETER	DESCRIPTION
Event Active	Indicates the alarm events available to be recorded. Selections are Alarm (alarm events), Motion (motion detection events), Both, or None (no events active). The default is **Both**, which includes Alarm and Motion event recording.
Event Record Mode	Indicates the sequence in which events are recorded from the cameras to the unit. **Unchanged** mode indicates that no change from normal sequencing is made for event recording. This is the default setting. Exclusive mode indicates that events are recorded exclusively from the camera on which they occur for the duration of the alarm. Interleave indicates that events are recorded with other data, but at an increased frequency. The sequence interleaves the alarmed camera with the quiet, or non-alarmed cameras.
Weekend Schedule	Determines whether a weekend schedule is in effect (Weekend selection only.). **ON** indicates a weekend schedule is in effect.

Normal and Event Record Rate (IPS)

When an alarm occurs, DigiMux records all video based on the Event Record IPS setup. After the alarm duration expires, or the alarm is no longer in effect, the record speed returns to Normal Record IPS. Normally, you would set Event Record IPS to a value equal or greater than Normal Record IPS. Depending on your application, you can reduce record speed (or turn it off completely) during the alarm period. If Event Record IPS is set to **OFF**, DigiMux stops all recording during alarms.

Pre-Alarm Video Quality and Record Rate

The quality of the pre-alarm video is the same as the quality setting for normal record video. The quality of the post-alarm video is the same as the quality setting for event record video.

The record rate (IPS) of the pre-alarm video is same as that of the normal record video.

Setting Up a Recording Schedule

To set up an effective recording schedule, follow these steps:

1. Decide the start and end times for each scheduling section such that when one schedule ends, the next one begins. For example, Day ends at 18:00 and Night begins at 18:00.

   Remember that no video is recorded for gaps in schedules. For continuous recording, one schedule should end at the same time the next schedule begins.
2. Choose the schedule you are setting (Day, Night, Weekend)
3. Adjust the items in the menu, as indicated in the table above.

When you complete your entries, take one of the following actions:

- Click **Save** to save the settings in this screen section.
- Click **Save All** to save all settings in the Configuration screen.
- Click **Cancel** to abort and leave all settings unchanged.

Data Life Time

Data Life Time deletes selected data from the video database. This selected data cannot be viewed (either locally or remotely) after a specified number of days. For example, all video stored on the DigiMux cannot be viewed after 41 days and 6 hours.

NOTE: Administrator's passcode is required to use Data Life Time. Data life time should be set during installation to avoid unnecessary deletion of recorded data.

Items in the Data Life Time box are described in the following table: L

ITEM	DESCRIPTION
Data Life Time	Enables or disables Data Life Time. **ON** enables Data Life Time. When set to **OFF**, Days and Hours are greyed out and are not accessible.
Days	Number of days after which data cannot be viewed. The value can be 0 to 365. The default value is **30**.
Hours	Number of hours in addition to days after which data cannot be viewed. The value can be 0 to 23. The default value is **0**.

When Dat aLife Time is set to ON and is in operation, data is continuously deleted from the video database as the storage time of the video reaches the specified duration time. Any data recorded before the specified duration time, including data in the event partition, is deleted when that time elapses. If you have previously recorded data, export important video clips before setting up Data Life Time. Previously recorded data is completely deleted when this option is set to ON. Data deletion requires some time, during which DigiMux is processing and the front panel is unavailable.

EVENT MANAGER SETTINGS

The Event Manager section of the Configuration screen allows you to determine how event conditions are handled by the remote unit, and how the remote unit behaves during these conditions. Click **Event Manager** to display the Event Manager section.

The items in this section enable or disable alarm event processing, or determine delays or response times. Items in the Event Manager section are described in the following table:

ITEM	DESCRIPTION
Day/Night Switch	Enables or disables the Day/Night switch. Select **ON** or **OFF** from the drop-down list. The default is **ON**.
Switch <ON>	Indicates whether the alarm setting follows day settings or night settings. The switch indicates whether the Day/Night Switch is set to Enable (**ON**) or Disable (**OFF**). Select **Day** or **Night** from the drop-down list. The default setting is **Day**.
Day/Night Switch	Sets a time delay, in minutes, between the moment the switch setting is changed and the moment the change takes effect. This delay allows the unit operator time to exit without triggering a false alarm. Enter the number of minutes delay time in this entry. The default setting is **1 minute**.
Internal Buzzer	Indicates whether or not the DigiMux internal buzzer is activated when an alarm event is triggered. Select **ON** to activate the buzzer, or **OFF** to deactivate it. The default setting is **ON**.

ITEM	DESCRIPTION
Alarm Out	Enables or disables the alarm output pins. There are three relays available to provide alarm outputs to the external IO connector. These signals can be used to drive a light or siren to warn the operator of alarm events. Select **ON** to enable the alarm output pins, or **OFF** to disable them. The default setting is **ON**.
Event Full Screen	Enables or disables the full screen view of events when they are triggered. If enabled, the output from the camera on which the alarm event occurs is displayed on the Main Monitor in full screen until the alarm expires. See *Event Full Screen Response* on page 49 for more information. Select **ON** to enable, or **OFF** to disable full screen view. The default setting is **OFF**.
Call Event Display	If enabled, causes the Call Monitor to switch to the camera on which an alarm event is triggered. If disabled, the Call Monitor continues to follow the Call Monitor switching sequence. Select **ON** to enable this action, or **OFF** to disable it. The default setting is **OFF**.
Remote Notification	Sets up and enables remote alarm notification via DigiAlert on a PC, E-mail, Pager, or Dialup modem. For more details, see *Remote Notification* on page 50.
Event Icon	If enabled, an alarm event icon is displayed on the Main Monitor when an alarm event occurs. Select **ON** to enable this action, or **OFF** to disable it. The default setting is **ON**.
Response Duration	Indicates how long the buzzer and Alarm Out relay will function after an alarm is triggered. Enter a value in the range of **1** to **999** seconds. The default setting is **5** seconds.
Any Key to Stop	If enabled, you can turn off the buzzer and/or alarm relay responses following an alarm by pressing any key. Select **ON** to enable this action, or **OFF** to disable it. The default setting is **ON**.

ITEM	DESCRIPTION
Motion Detection	Enables or disables motion detection for alarm detection. Select **ON** to enable motion detection, or **OFF** to disable it. The default setting is **ON**. When Motion Detection is **ON**, the Motion options are displayed in the Event Manager screen. For information on how to set a motion condition for a camera using these options, see *Setting Up Motion Detection* on page 53.
Alarm In Detect	Enables or disables the Alarm In pins for alarm detection. Select **ON** to enable the Alarm In pins, or **OFF** to disable them. The default setting is **ON**.
Video Loss Detect	Enables or disables the unit from detecting Video Loss as an alarm event. Select **ON** to allow Video Loss alarm detection, or **OFF** for no Video Loss alarms. The default setting is **ON**.
Alarm Set/Reset SW	Enables or disables the Alarm Set/Reset signal of the external I/O connector. The Alarm Set signal activates alarm output, regardless of whether an alarm event occurs. It also allows you to deactivate the alarm output by an Alarm Reset signal after an alarm is triggered. Select **ON** to activate the Alarm Set /Reset signal, or **OFF** to deactivate it. The default setting is **ON**.

Event Full Screen Response

If you enable an Event Full Screen response to alarms, the alarm video is displayed in full screen mode when an event is triggered. The full screen display of the alarm video takes precedence over other activities (i.e., zoom, dome control, etc.) and displays on the main monitor screen. You also must first stop the alarm at the unit or wait for the alarm duration to expire before going into playback mode.

If the Any Key To Stop event response is enabled, press any Camera key on the DigiMux to stop the alarm. The keys on the right side of the DigiMux unit are disabled except for Menu.

If you have a call monitor, the alarm video is displayed on the call monitor. Thus, you can continue with activities using the main screen and view the alarm event on the call monitor as long as Event Full Screen is not enabled.

REMOTE NOTIFICATION

When an event occurs and an alarm is generated, remote notification enables you to receive information about an alarm at a remote location, such as a pager or a PC. Your PC can receive alarm notification via E-mail, or via DigiAlert over a LAN. Dialup alarm notification via modem is also possible with DigiAlert.

The Remote Notification box allows you to setup and enable remote alarm notification. In the Event Manager screen, click Selection in the Remote Notification box. Items in Selection are described in the following table:

MENU ITEM	DESCRIPTION
DigiAlert (Net)	Enables (**ON**) or disables (**OFF**) DigiAlert notification of an alarm event over a Local Area Network. When an alarm event is triggered and DigiAlert (Net) is **ON**, information concerning the alarm event is dispatched to a specific IP address. The PC at that IP address must have the DigiAlert application installed in order to receive the alarm notification. The default setting is **ON**.
E-mail	If enabled, dispatches an E-mail notification of the alarm event when an alarm event is triggered. Select **ON** to enable this action, or **OFF** to disable it. The default setting is **OFF**. See *Saving Event Manager Entries* on page 57 for more information. For information on how an Administrator can establish an e-mail address for notification, see *Setting Up Remote Notification* on page 51. NOTE: In order to enable E-mail notification, you must have a valid DNS address.
Pager	Enables (**ON**) or disables (**OFF**) pager notification of an alarm event. When an alarm is triggered and Pager is **ON**, DigiMux dials the pager number via an external modem to send notification of the alarm event. The default setting is **OFF**. When you select **ON**, you can either select **Continue** or **Stop** to continue or stop dialing the pager when an event occurs. NOTE: Pager requires an external USB Modem, or an RS-232 Modem with a USB to RS-232 converter. A dedicated analog standard POTS line is also required. Do not use a PBX or digital line with this modem.

MENU ITEM	DESCRIPTION
DigiAlert (Dial)	Enables (**ON**) or disables (**OFF**) DigiAlert notification of an alarm event over a dial-up modem. When an alarm event is triggered and DigiAlert (Dial) is **ON**, information concerning the alarm event is dispatched to a specific IP address. The PC at that IP address must have the DigiAlert application installed in order to receive the alarm notification. The default setting is **OFF**. NOTE: DigiAlert (Dial) requires an external USB Modem, or an RS-232 Modem with a USB to RS-232 converter. A dedicated analog standard POTS line is also required. Do not use a PBX or digital line with this modem.
Preemptive Dial Out	Enables (**ON**) or disables (**OFF**) preemptive dial out for event notification. When an alarm event is triggered and Preemptive Dial Out is **ON**, then any other modem-based operations are interrupted in order for alarm notification to occur over the modem. The default setting is **OFF**.

Setting Up Remote Notification

The Remote Notification Set up screen allows you to set up the parameters needed to fully enable remote notification using the methods specified in the Remote Notification box. The correct entries for these parameters allow the DigiMux to locate the remote device(s) for notification.

In the Remote Notification box, select Setup. The items in Setup are described in the following table:

MENU ITEM	DESCRIPTION
DigiAlert IP	Allows you to enter the IP Address of the PC on which the DigiAlert software is installed. See *Appendix B: Determining Your PC's IP Address* on page 83 for information on determining your PC's IP Address.
E-Mail Address	Allows you to enter the E-mail address to which alarm event information is sent, if this capability is enabled. NOTE: In order to enable E-mail notification, you must have a valid DNS address.

MENU ITEM	DESCRIPTION
Pager Number	Allows you to enter the number of a pager that the unit dials for event/alarm notification, if this capability is enabled. For more details, see *Pager Number*, below.
Dial-Out Phone No	Allows you to enter the phone number that the unit dials via modem for event/alarm notification, if this capability is enabled. For more details, see *Dial-Out Phone No* on page 53.

E-Mail Notification

The e-mail message provides the name and IP address information of the DigiMux unit on which an alarm occurred. The nature of the alarm, the associated camera, and time and date are included in the body of the e-mail message. Currently, there is no option to select the time zone in which the unit is located. The DigiMux specifies the time at which the e-mail was sent based on Greenwich Mean Time (GMT). This Internet e-mail is dependent on many external factors, such as DNS server setup and network traffic. The time between alarm occurrence and message receipt will vary and depends on your network setup.

Pager Number

The Pager Number item enables you to enter the number of a pager that the unit dials for event/alarm notification.

If the unit is dialing a touch tone pager, enter the number only. If you are using a pager service provider and a pause in the number is required, enter a **p** for Pause.

The pager number is dialed when an alarm is triggered and Pager is **ON**. For information on Pager, see *Remote Notification* on page 50.

NOTE: Pager Notice requires an external USB Modem, or an RS-232 Modem with a USB to RS-232 converter. A dedicated analog standard POTS line is also required. Do not use a PBX or digital line with this modem.

Dial-Out Phone No

The Dial-Out Phone No option enables you to enter the phone number that the unit dials via an external modem for event/alarm notification. If the unit is dialing a modem that does not require any pause, enter the number only. If contacting the modem requires a pause in the number, enter a **p** for Pause.

The phone number is dialed via the external modem when an alarm is triggered and Dial-Out Phone No is **ON**.

NOTE: Dial-Out requires an external USB Modem, or an RS-232 Modem with a USB to RS-232 converter. A dedicated analog standard POTS line is also required. Do not use a PBX or digital line with this modem.

Setting Up Motion Detection

When Motion Detection is set to **ON**, the Motion Setup Window is displayed in the Event Manager screen. The Motion Setup Window is shown in the figure below. It display video from Channel 2 and a defined target area (squares) for Condition 1:

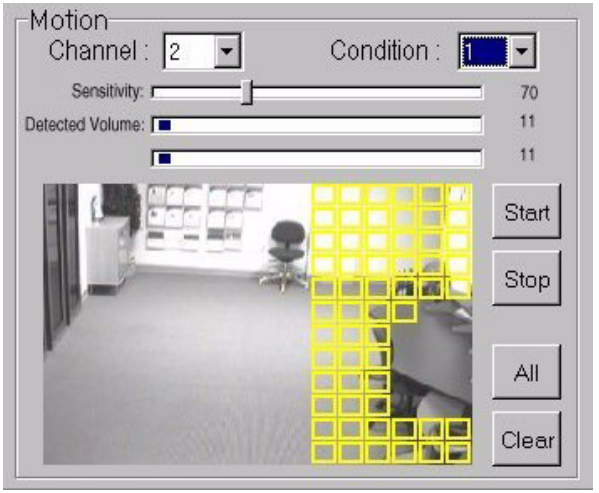

Figure 13 — Motion Setup Window in Event Manager Screen

The following table describes the Motion Setup Window items:

ITEM	DESCRIPTION
Channel	Selects the channel (camera) for motion detection settings. Select the channel number from the drop-down list. Video from that channel is displayed in the window in the Motion Setup Window when you click **Start**.
Condition	Selects the condition mode to which these motion detection settings apply. Select the condition number from the drop-down list. Condition numbers correspond to the settings in the Configuration Table (see *Configuration Table* on page 36).
Threshold	Determines the sensitivity threshold of the motion detection alarm. A smaller value indicates a greater sensitivity. Click and drag the slider on the Threshold bar to the desired threshold level.
Detected Volume	Displays the volume of activity or motion occurring in the target area.
Start	Click to view live video from the selected channel and test the motion detection setup for sensitivity and detection, etc.
Stop	Click to halt the motion detection testing mode.
All	Click to select the entire camera view as the target motion detection area for the selected condition.
Clear	Click to clear any target area designation.

Motion detection depends on the Day, Night and Weekend recording schedules, and the conditions assigned to Day, Night, and Weekend in the Configuration Table in the Camera screen. To set up Day, Night, and Weekend recording schedules, see *Adjusting the Day/Night/Weekend Recording Schedule* on page 42.

The following steps completely enable motion detection:

1. From the Main Window, click **Setup**.
2. Select **Camera** from the Main Menu.

   The Camera screen with the Configuration Table is displayed. This table contains three parameters for motion detection that you set for each camera. By default, Day motion detection is defined via Condition 1, and Night and Weekend motion detection is defined via Condition 2. It is possible to turn motion detection off for any camera by selecting N, for none. These settings can be changed to 1, 2, or N by pressing the **Enter** key over the indicated table entry for each camera in the table:

   Day: Motion Default is Condition 1

   Night: Motion Default is Condition 2

   Wkd: Motion Default is Condition 2

   To enter the condition mode desired for Day: Motion, Night: Motion, and Wkd: Motion, right-click the entry and select the desired condition. Click **Save** in the Administrator Setting box when you have completed the entries for your cameras in the Configuration Table.

Detection Area Setup

1. On the Event Manager screen, select **ON** for Motion Detection.
2. In the Motion Setup Window, select the **Camera** and the **Condition** for which you are setting the motion detection target area.
3. In the display window, click the areas that form your Detect Area. If the whole window is a Detect Area, click **All**. To remove all squares from the window, click **Clear**.

   Each mouse click in the window displays a yellow box that forms the Detect Area. Motion volume is measured only in the Detect Area. If there is motion in the area and it crosses the designated volume threshold, an alarm is triggered.

A Detect Area is displayed on the right side of the following figure:

Figure 14 — Motion Detect Area

Click a square to toggle it on or off as a part of the detection area. You can click to create a square as part of the detection area, or click an existing square to remove it from the detection area.

Determining the Sensitivity Threshold

The Threshold slider bar allows you to set the sensitivity level for each camera by defining a threshold, or trigger level for the alarm. The values for the threshold and the detected volume indicate the level of motion detection for this camera and condition. The values are:

Threshold	The alarm trigger level, or sensitivity threshold.
Detected Vol	The amount or volume of motion the camera is currently detecting.

When the amount of motion detected (Detected Vol) exceeds the Threshold value, a motion alarm is triggered. A smaller Threshold value indicates a more sensitive motion alarm.

Click and drag the **Threshold** slider to the right for a higher motion detection threshold, or to the left to decrease the threshold and increase the sensitivity to motion.

When you have set the Condition 1 motion detection for this camera, you can set up Condition 2 motion detection. Select Condition 2 from the Condition pull-down menu, and set up motion detection for this condition and camera as you did in the instructions on page 55 and page 56.

Starting and Stopping Motion Detection for a Camera

The **Start** and **Stop** buttons allow you to test the motion detection setup in the Motion Setup Window before saving the configuration. Press **Start** to view live video from the specified channel with the motion detection alarm condition setting as a test. Press **Stop** to end the live video display in the Motion Setup Window and end the motion detection test.

Saving Event Manager Entries

When you complete your entries, take one of the following actions:

- Click **Save** to save the settings in this screen section.
- Click **Save All** to save all settings in the Configuration screen.
- Click **Cancel** to abort and leave all settings unchanged.

NOTES

ADMINISTRATION TASKS AND SYSTEM INFORMATION

This chapter describes how to perform basic administration tasks on a remote unit using the DigiClient software.

NOTE: You must enter the Admin passcode to have access to the Administration area of the Configuration screen.

ADMINISTRATOR SETUP

The Administrator Setup Configuration screens allow you to change unit administration settings. Administrators can change passcodes, establish the RS-485 setup, and perform other administrative functions on the remote unit. Note that some of this information is also displayed in the System Information area (see *System Information* on page 67).

The Administrator Setup screen is displayed.

CHANGING PASSCODES

As the Administrator, you can change User or Admin passcodes on the DigiMux unit. The passcode allows you to access the unit menus on the DigiMux or DigiClient.

NOTE: Remember to change passcodes to prevent unauthorized access to the unit. The same passcodes used to access DigiClient are also used to access the DigiMux unit. Remember your password. Write it down on the card in the front of the *DigiMux User's Manual* and keep the card in a convenient place. If you forget your password or cannot find your card, please call your Customer Service Representative and/or visit www.americandynamics.net.

To change a passcode:

1. Select **User** or **Admin** in the Change Passcode box to indicate the passcode you are changing.
2. Enter a new passcode in the **New** passcode field.
   A passcode is a combination of single digits in the range of 0 to 9, inclusive. Keep in mind that the passcode affects the remote unit, and the remote unit passcode is entered using the front panel numbered keys.

NOTE: You must choose numbers for your passcode that correspond to the buttons available on your front panel. Otherwise, you cannot log in to the DigiMux unit using the front panel. For example, on a four-channel unit, you are limited to the numbers 1, 2, 3, and 4. You may repeat digits in the 4-digit passcode sequence.

3. Enter the new passcode again in the **Confirm** passcode field.
4. Click **Save** in the Change Passcode box to save the passcode.

The new passcode is set for the DigiClient and the remote unit. To save the changed passcode, you must click **Save** in the Change Passcode box on the Administrator Setup screen.

COVERT CAMERAS AND COVERT PLAYBACK

The Covert Playback item in the Administrator Setup screen allows the Administrator to enable the video from a covert camera to be played back and viewed by Users.

Covert cameras are cameras that record video information, but do not display it on the monitor or in DigiClient. Administrators can view covert cameras in playback mode. This option is not available to Users.

Administrators can designate a camera as covert for security reasons. Because a covert camera appears as a disconnected or unused camera to general users, we recommend you set up the last cameras, such as camera 15 and 16 on a 16-channel DigiMux, as covert.

In playback mode, a camera cannot be placed into covert mode if the video recorded from it was from a normal camera. The covert camera feature in playback is available only if and when the camera was recorded as covert. Video recorded before that time is available to any user in playback. A camera's video is only considered covert during the time period that the camera itself is designated covert.

To enable covert playback, select **ON** from the Covert Playback drop-down list. To disable covert playback, select **OFF**. The default selection is **ON**.

LANGUAGE AND UNIT NAME

The Language and Unit Name items on the Administrator Setup screen enable you to select the language used on the OSD menu on the DigiMux unit, and to establish or change the unit name. The following table describes these items:

ITEM	DESCRIPTION
Language	Enables you to set the language used on the DigiMux unit. The default setting is **English**. You can select French, German, Italian, or Spanish. NOTE: This item does not affect DigiClient language selection.
Unit Name	To establish a unit name or to edit an existing unit name, enter the desired name in the Unit Name field.

LAN SETUP

The Administrator cannot change most LAN-related items in the LAN Setup box in the Administrator Setup screen. These items must be changed by an Administrator via the DigiMux unit's Front Panel.

NOTE: See your network administrator and/or network service provider for more specific information concerning LAN setup.

The items in LAN Setup are view-only with the exception of DHCP. Anytime you change the DHCP option, the connection will be lost. You must log in again after obtaining (or editing) the IP address of the DigiMux via the unit's front panel. Click LAN Setup if the Lan Setup box is not already displayed.

Items in the LAN Setup box are listed in the table below.

ITEM	DESCRIPTION
DHCP	(Dynamic Host Configuration Protocol) Enables dynamic IP addresses for this unit on the network. The unit obtains the IP address from the DHCP server during the boot up process.By default, DHCP is **OFF**. To use DHCP, select **ON**. NOTE: The unit must be rebooted for dynamic addressing to take effect.

ITEM	DESCRIPTION
IP	Displays the IP (Internet Protocol) address of the DigiMux unit. The default IP address is 192.168.254.010. To enable a static IP address, DHCP must be set to **OFF**. NOTE: This address must be changed to work within your network and to avoid possible conflicts with other units on your network. For more information on changing the IP address, see the *DigiMux User's Manual*.
Netmask	Displays the 32-bit netmask for the DigiMux unit. DHCP must be set to **OFF**.
Gateway	Displays the IP address of the gateway or router associated with this DigiMux. DHCP must be set to **OFF**.
DNS	Displays the IP address of the Domain Name System associated with this DigiMux. DHCP must be set to **OFF**.
Save	Enables you to disconnect from the DigiMux unit in order to change the current LAN setup.

NOTE: The LAN Setup cannot be changed via DigiClient. An Administrator must change the LAN Setup on the DigiMux unit via the OSD menu. See the *DigiMux User's Manual* for more information.

RS-485 SETTINGS

The Administrator can set the parameters for the RS-485 protocol by selecting appropriate values from the drop-down lists in the RS-485 Settings box in the Administrator Setup screen. Items in this box are listed in the table below:

RS-485 SETUP	DESCRIPTION
RS-485 ID	Allows you to identify the RS-485 port. The value of this number is in the range of 1 through 254. The default value is **9**. NOTE: In general, no two units on the same bus should have the same RS-485 ID address. If there are multiple units, dome cameras, and keyboard devices installed on the same RS-485 bus, make sure that each device has its own unique ID address.
Baud Rate	Allows you to specify the baud rate for the RS-485 port. The default is **4800** baud.
Bits	Allows you to specify the bits in a word that are associated with this protocol. The default setting is **8 bits**.

RS-485 SETUP	DESCRIPTION
Stop	Allows you to specify the stop bit associated with this protocol. The default is **1 stop bit**.
Parity	Allows you to specify the parity associated with this protocol. The default is **None**.

DIAL IN/OUT

The Dial In/Out option enables you to establish dial-up modem communication to and from a DigiMux unit for remote notification and DigiClient use. Dial In/Out also allows you to establish passwords for the dial-in and dial-out connections. You can connect one modem to a DigiMux unit.

NOTE: The information in this manual discusses the DigiMux setup for modem connection only. You will need to set up a connection from your PC. Some guidelines for PC setup are provided in *Appendix C: Dial-Up PC Connections* on page 84. For more information on dial-up modem configuration, see your Windows Operating System online documentation.

Modem communication with DigiMux takes place via the Point to Point (PPP) protocol. The Dial-In IP menu allows you to enter the IP addresses that enable the DigiMux unit to communicate with a remote PC via a modem.

Items in the Dial In box are described in the following table:

MENU ITEM	DESCRIPTION
Dial-In	Enables (**ON**) or disables (**OFF**) a computer to dial in via modem to the DigiMux unit, as in the operation of DigiClient. The default setting is **ON**.
User Name	Enables you to protect your unit by establishing or changing a dial-in user name for your modem connection.
Password	Enables you to protect your unit by establishing or changing a dial-in user password for your modem connection.
Confirm	Confirms the Password that you entered in the Password field.
Local	Assigns the IP address that identifies the DigiMux unit over the modem connection. The default Local IP is **192.168.000.001**. This address can remain as is unless it conflicts with another IP address.

MENU ITEM	DESCRIPTION
Assign Remote IP	Enables (**ON**) or disables (**OFF**) automatic assignment of an IP address to the remote PC. A Windows Operating System default connection specifies that the DigiMux unit assign the IP address to the PC. If you are using this default connection, then enable (**ON**) this item. Otherwise, select **OFF**.
Remote IP	Specifies the remote PC's IP address for connection with the DigiMux unit, if the DigiMux unit is not making the assignment. Use the **Arrows** to enter the IP address and press **Enter** to accept it. This item is only available if Auto assign Remote IP is **OFF**.

The Local IP address identifies the DigiMux unit over the modem line. By default, the DigiMux automatically assigns an IP address to the remote PC to establish a connection with it.

If you want to assign a static IP address to your PC for this modem connection with the DigiMux, you must inform the DigiMux unit of your PC's assigned IP address. I n this case, do not allow the DigiMux to perform an automatic assignment. For more information on forming a network connection with a remote PC, see your Windows Operating System online documentation.

Items in the Dial Out box are described in the following table:

MENU ITEM	DESCRIPTION
User Name	Enables you to enter your PC log in user name, which is used while dialing out to your remote PC.
Password	Enables you to enter your PC log in password, which is used while dialing out to your remote PC.
Confirm	Confirms the Password that you entered in the Password field.

MODEM

The Modem box in the Administrator Setup screen allows you to configure the modem that forms the communication link with the DigiMux system. Items in the Modem box are described in the following table:

MENU ITEM	DESCRIPTION
Initial String	Allows you to enter an initialization string for your modem. Use the virtual keyboard to enter the string. For information on your modem's initialization string, see the documentation that accompanies your modem.
Max Dial-Out Retry	Indicates the number of times DigiMux dials-out via the modem if the first attempt to connect is unsuccessful. DigiMux retries the number until a connection is made or the specified value is reached. The default setting is **03**.
Retry Delay	Indicates the amount of time between dial-out retries. The delay can be set in the range of 01 sec to 10 sec. The default setting is **05 sec**, which specifies that DigiMux waits 5 seconds between each retry.
Minimum Dial-Out Interval	Indicates the shortest amount of time between ending a connection and the next dial-out with this modem, thus allowing the modem to adjust. The value can be set in the range of 05 min to 60 min. The default setting is **30 min**.
Max Dial-Out Idle Time	Indicates the longest amount of time that the modem connection remains active if there is no acknowledgement from the remote PC. The value can be in the range of 01 min to 30 min. The default setting is **03 min**.
Max Dial-Out Time	Indicates the longest amount of time that the connection via modem remains active. The value can be in the range of 01 min to 60 min, or OFF if you want the connection indefinitely. The default setting is **10 min**.

DOME PROTOCOL SETUP

If you are using dome cameras, the Administrator can set the ID and protocol for each dome camera in the Dome Protocol Setup box in the Administrator Setup screen. This box contains the numbers and titles of all cameras connected to the DigiMux unit. The following items are configured for each dome camera:

Dome Protocol	Select the protocol associated with this dome from the drop-down list next to the camera number. Dome protocol selections are: AD422, Dynacolor, Pelco D, Pelco P, or **None** (default).
Dome ID	Select an ID number for the dome from the drop-down list next to the camera number. ID values are in the range of 1 through 255. The default setting is **001**.

You can also assign Dome Protocol and Dome ID settings on the DigiClient Main Window for any dome camera. A Dome icon is displayed for dome cameras:

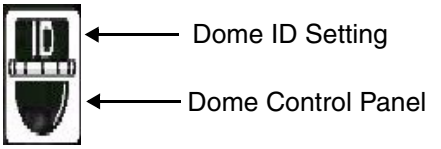

Figure 15 — Dome Camera Icon

To make a dome camera assignment, follow these steps:

1. Click **ID** on the Dome icon in the pane for dome camera.
2. Enter the ID number in the Dome ID field.
3. Select the desired protocol from the Dome Protocol pull-down list.
4. Click **OK** to accept the ID and protocol, or **Cancel** to abort.

NOTE: If there are multiple units, dome cameras, and keyboard devices installed on the same RS-485 bus, make sure that each device has its own unique ID address.

You can access the Dome Control Panel by clicking the bottom of the dome icon. The Dome Control Panel allows you to work with the dome camera. For information on operating a camera with dome control, see *Operating Cameras with Dome Control* on page 16.

SYSTEM INFORMATION

The System Information section of the Configuration screen allows you to view information concerning the system on which DigiClient and the remote units are installed. This read-only section contains reference information for your use. Click **System Info.** in the Main Menu to access System Information.

This screen contains four displays with different types of information:

ITEM	DESCRIPTION
H.D.D. information	Displays information about your hard disk drive(s) and available drive capacity.
Revision information	Displays the software, firmware, and hardware revisions with their version and date codes.
LAN & Pager information	Displays information about your LAN setup and the pager number for pager notification, if one is entered.
Storage Device information	Displays a list of connected devices that are used for storage and exporting recorded data from the unit, e.g., USB HDD or USB CD-RW.

The Revision, LAN, and H.D.D. information is described in the following table:

INFORMATION	ITEM	DESCRIPTION
H.D.D. Information	**1st H.D.D.**	Displays the available capacity of this hard drive in Gigabytes (GB).
	2nd H.D.D.	Displays the available capacity of this hard drive in Gigabytes (GB). Non-existent hard drives are labelled “Not available.”
Revision Information	**Hardware Version**	Identifies the hardware version for this unit, i.e., OA5-04A20302.
	Software Version	Identifies the software version installed on this unit, i.e., 1.0.3.23-01.
	DigiClient Version	Identifies the version of the DigiClient software installed on this unit, i.e., 1.0.93.0.
	DigiAlert Version	Identifies the version of the DigiAlert software installed on this unit, i.e., 1.0.0.1.

INFORMATION	ITEM	DESCRIPTION
Revision Information (*continued*)	**Config. Modified**	Provides the date and time when the unit's configuration was last modified and saved. The format for the date and time is MM/DD/YY HH:MM:SS (Month/Day/Year Hours:Minutes:Seconds)
LAN & Pager Information	**DHCP**	Displays whether or not DHCP (Dynamic Host Configuration Protocol) is used with the remote unit.
	IP	The IP (Internet Protocol) address of the DigiMux unit.
	Netmask	Displays the unit's 32-bit netmask.
	Gateway	Displays the IP address of the default gateway or router associated with this DigiMux.
	DNS	Displays the IP address of the Domain Name System provider.
	Command Port	The port through which DigiClient PC commands are sent to and from the remote unit.
	Video Port	The port on the remote unit through which video information is sent and displayed on a DigiClient PC.
	Email Address	The E-mail address to which alarm event information is sent, if this capability is enabled. See *Language and Unit Name* on page 61 for information on how the E-mail address is set up.
	Pager Number	The pager number to which alarm information is sent via an external modem if this capability is enabled.
Storage Device Information	Displays information about storage devices attached to the DigiMux unit.	

About the Hard Drives

The available capacity of the hard drive is displayed in Gigabytes (GB) in the System Information screen. Hard disks capacity in DigiMux units can be 80 GB, 160 GB, or 320 GB.

When you finish viewing the system information, you can:

- Click **Save All** to save all settings in the Configuration screen.
- Click **Cancel** to abort and leave all settings unchanged.
- Click one of the items on the Main Menu to access another part of the Configuration Screen.

APPLYING YOUR SETTINGS

When you complete your settings, take one of the following actions:

- Click **Save** to save the settings in this screen area.
- Click **Save All** to save all settings in the Configuration screen.
- Click **Cancel** to abort and leave all settings unchanged.

If you want to change other settings in the Configuration screen, select the area you want to configure from the Main Menu.

NOTES

DIGIALERT EVENT MANAGER

OVERVIEW

DigiAlert provides notification of alarm events on selected DigiMux units. Using DigiAlert, you can monitor multiple DigiMux units for alarms without having DigiClient actively connected to a DigiMux. When an alarm is triggered on a DigiMux unit, then DigiAlert on your PC is notified over LAN, WAN, Internet or direct dial-up modem connection. You can also launch DigiClient from the DigiAlert Alarm window or Pending Alarms window for quick verification of an alarm event.

DigiAlert minimum system requirements are the same as those for DigiClient. For more information, see *Minimum System Requirements* on page 2.

DIGIMUX CONFIGURATION FOR DIGIALERT

In order for DigiAlert to receive event notification from one or multiple DigiMux units, these units must be configured with the DigiAlert IP address. On one PC, DigiAlert can receive notifications from up to 50 DigiMux units.

NOTE: If you do not know the IP address of your PC, see *Appendix B: Determining Your PC's IP Address* on page 83.

To configure the DigiMux unit for DigiAlert, follow these steps from the DigiMux front panel, DigiRemote, or remote keyboard:

1. Press **Menu** on the DigiMux front panel and enter the Administrator passcode.
2. From the Main Menu, select **Event Manager**.
3. From the Event Manager menu, select **Event Response**.
4. From the Event Response menu, select **Remote Notification**.
5. Depending on your network connection type, make sure that DigiAlert (Net) or/and DigiAlert (Dial) is set to **ON**. Then, select **Setup**.
6. Select **DigiAlert IP** and use the **Arrows** to enter the IP address of the PC on which DigiAlert is installed.
7. Press **ESC** to return to *Set up* menu, select **Dial-Out Phone No**, if necessary, to enter the phone number of the modem that will receive notification.
8. Press **ESC** until the Exit menu is displayed, and then select **Save and Exit**.

DigiAlert should now be receiving event notifications from the DigiMux unit.

By default, DigiAlert is enabled whenever your Operating System is running. If you shut down the PC and restart it, DigiAlert starts during Operating System boot up. When an alarm event is detected on the DigiMux, DigiAlert is notified and the DigiAlert icon begins to flash.

INTRODUCTION TO DIGIALERT

You can set up DigiAlert to provide several different types of notification. Up to 50 DigiMux units can send notification to DigiAlert on one PC. Notification can include sound, flashing icon, and/or a notice on your screen, depending on setup. You can launch DigiClient from DigiAlert's Alarm window or Pending Alarms window window to view the events listed on your screen.

Starting DigiAlert

When you have configured DigiMux to send notification to DigiAlert (see *DigiMux Configuration for DigiAlert* on page 71 for details), you can start DigiAlert to receive immediate alarm notification. Start DigiAlert using one of the following methods:

- Click the desktop DigiAlert icon.
- From the Start menu, select **Programs** and then **DigiAlert** twice.

Setting Up DigiAlert

DigiAlert is operated from its location in the Operating System tray. Right-click the DigiAlert icon to display the pull-down menu, which contains the following items:

MENU ITEM	DESCRIPTION
Active	Toggles the DigiAlert notification status. The default condition is **Enabled**, which allows DigiAlert to provide notification of events. To disable remote event notification, click **Disabled**. When DigiAlert is disabled, the icon is grayed-out in the Operating System tray and alarm notification is suspended. To reactivate alarm notification, select **Active**, and then **Enabled**.
Pending Alarms	Lists all alarms in progress for which DigiAlert has received notification. Multiple DigiMux units may be listed. For more information on Pending Alarms, see *The Pending Alarms Window* on page 76.
Setup	Allows you to configure DigiAlert for event notification. For more information, see *Setting Up DigiAlert*, below.

MENU ITEM	DESCRIPTION
About	Provides version information and notification status. When DigiAlert is actively providing notification, the status is Enabled.
Exit	Quits DigiAlert. Remote notification does not occur until DigiAlert is restarted.

DigiAlert Setup Menu

The DigiAlert Setup menu determines how remote notification works on your PC. From the DigiAlert pull-down menu, select **Setup**. The Setup menu contains the following items:

MENU ITEM	DESCRIPTION
Enable DigiAlert at Startup	Toggles DigiAlert notification status at startup. Select **Enabled** for DigiAlert to start when your PC's Operating System is booted up. Select **Disabled** to allow the Operating System to boot without starting DigiAlert. To manually start DigiAlert, select **Programs**, then **DigiAlert** from the **Start** menu. The default setting is **Enabled**.
Alarm Notification Settings	Allows you to determine DigiAlert remote notification behavior upon the occurrance of a DigiMux alarm. See *Setting Up Alarm Notification* on page 74 for more information.
Simulate Alarm	Allows you to simulate the alarm notification as you adjust settings. Select **Simulate Alarm** to perform the action using the current alarm notification settings. Adjustments in the settings can be made using the Alarm Notification Settings menu item.
Language Selection	Allows you to override the current language selection. When DigiAlert is installed, it sets the language selection to match the PC's Operating System language setting by default. To override this default, select **English**, **French**, **Italian**, **German**, or **Spanish** to change the language selection.

Setting Up Alarm Notification

The DigiAlert Alarm Notification Settings allow you to tailor the alarm notification. You can play an audio file for audible alarm notification, repeat the notification, flash the icon and/or display the DigiAlert Window.

Figure 16 — DigiAlert Alarm Notification Settings Screen

The following table describes the parameters used to set up alarm notification:

ITEM	DESCRIPTION
Play audio file	Enables DigiAlert to play a specified audio file when notified of an event. Click to enable audio.
Repeat	Enables repeat alarm notification.
Audio file path	Allows you to specify the audio file to be played during alarm notification. The default file is **`Alarm1.wav`**. To select another file, click **Browse**. When the file is selected, click **Play** (▶) to listen to the audio file. To stop the audio file, press **Stop** (■).
Flash DigiAlert icon	Enables the DigiAlert icon in the Operating System tray to flash when notified of an alarm on a DigiMux unit. Click to enable flashing icon.
Display DigiAlert Window	Enables the DigiAlert window to be displayed when notified of an alarm on a DigiMux unit. Click to enable window display.

WORKING WITH PENDING ALARMS

When your PC is notified of an alarm via DigiAlert, you can respond to the alarm notice in several ways. Your response to alarm notice can depend on how you set up the alarm notification.

The DigiAlert Window Display

Selecting **Display DigiAlert Window** from the pull-down menu causes a window to open on your screen for alarm notification. If the DigiAlert Window is displayed, respond in one of these ways:

- Click **Close**.

  This action closes the window, though the alarm may still be pending. If you have an audio alarm, closing the window stops the audio file (if enabled). See *The Pending Alarms Window*, below, for information on how to check alarms that are still pending.

- Click **Launch DigiClient**.

  This action launches the DigiClient application for the specific alarm displayed in the window. You can then use DigiClient to view the event that triggered the alarm. When you launch DigiClient for this alarm, the audio file (if enabled) is stopped and the alarm is cleared.

The Pending Alarms Window

Pending alarms are those alarm notices that have not yet been cleared either by DigiClient or by DigiAlert. Multiple DigiMux units can send alarm notification to the same PC.

Alarms are displayed in the Pending Alarms window, as shown below:

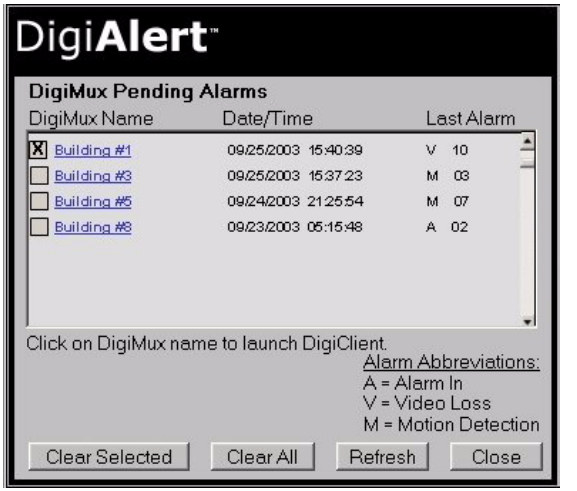

Figure 17 — DigiAlert Pending Alarms Window

Items in the Pending Alarms window are described in the following table:

ITEM	DESCRIPTION
DigiMux Name	Lists the name of each DigiMux unit for which an alarm, or group of alarms, is pending. The DigiMux unit names in this list are active links to DigiClient. The check boxes next to the names allow you to select the named unit for further action.
Date/Time	Lists the date and time of the last known pending alarm reported from the listed DigiMux unit. There may be more alarms pending on the unit.
Last Alarm	Lists the type of alarm and the number of the channel that generated the most recent alarm. Types of alarms include the following: **A** = Alarm In **V** = Video Loss **M** = Motion Detection

ITEM	DESCRIPTION
Clear Selected	Clears all alarms for those listed DigiMux units that are checked.
Clear all	Clears all pending alarms for all DigiMux units.
Refresh	Checks all units for more recent pending alarms than those presently listed. The list is displayed with any new alarms pending.
Close	Closes the Pending Alarms window.

How to Check Pending Alarms

When the PC is receiving an alarm notification, the following may occur:

- The DigiAlert icon in the Operating System tray flashes, if enabled.
- The DigiAlert Window displays on your screen, if enabled.
- An audible alarm sounds, if enabled.

You can inspect these alarms using the Pending Alarms window, as described below.

To clear the the alarms for specific units

1. Click the **DigiAlert** icon in the Operating System tray and select **Pending Alarms** from the pull-down menu.
2. Click the box next to the name of the desired unit (s).
3. Click **Clear Selected** to clear the alarms from the desired unit(s).

To clear the the alarms for all units

1. Click the **DigiAlert** icon in the Operating System tray and select **Pending Alarms** from the pull-down menu.
2. Click **Clear All** to clear the alarms from all units.

To inspect and clear the alarms with DigiClient

1. Click the **DigiAlert** icon in the Operating System tray and select **Pending Alarms** from the pull-down menu.

   The Pending Alarms window is displayed. Take note of the date, time, type of alarm, and channel information for the latest reported alarm on the unit of interest.
2. If you want to view the latest alarms from a unit, click the unit name.

   DigiClient for the specified unit is launched.

3. Login using your Username and Passcode.

   Live video from the unit is displayed in DigiClient, and the event that triggered the alarm may still be in progress. If it is not, then proceed to Step 4.

4. Click **Alarm** to view the Alarm List.
5. Scroll through the list and select the last alarm either from the Event Partition (E), or the Normal Partition (N).

   The video for the selected event is played back for all channels. If you choose to view the events using DigiClient in this way, the alarms are cleared.

To list the very latest pending alarms

1. Click the **DigiAlert** icon in the Operating System tray and select **Pending Alarms** from the pull-down menu.
2. Click **Refresh** to list the very last alarms to occur on each listed unit.

APPENDICES

APPENDIX A: ACCOUNT ACCESS AND PRIORITIES

Admin and User accounts have different levels of access to DigiClient commands and operations. Admin accounts have access to all viewing and configuration commands in DigiClient, while User accounts have only viewing access to configuration commands.

The following table describes those commands that are accessible and usable by User accounts:

COMMAND OR OPERATION	ACCESS	USE
Live Viewing	Yes	Yes
Dome Control from Live View	Yes	Yes
Alarm List	Yes	Yes
Alarm List Playback	Yes	Yes
Video (Stored)	Yes	Yes
Download	Yes	Yes
Playback Video	Yes	Yes
Playback Local Video	Yes	Yes
Setup	Yes	View Only
Admin. Settings Save	No	No
Admin. Settings Load	No	No
Factory Setting Load	No	No
Save	No	No
Save All	No	No
Cancel	Yes	Yes
Date & Time	Yes	View Only
Date Field	View	No
Time Field	View	No
Date Display Mode	Yes	No
Time Format	Yes	No

COMMAND OR OPERATION	ACCESS	USE
RS-485 Calibration (Time Synchronization)	No	No
Monitor	Yes	View Only
Call Monitor Dwell	Yes	No
Call monitor Schedule	View	No
Camera	Yes	View Only
Camera Title	Yes	No
Show Camera Title	Yes	No
Camera Title Position	Yes	No
Configuration Table	View	No
Record	No	No
Event Manager	No	No
System Info.	Yes	View Only
Admin. Setup	No	No

Administrators who are accessing the On-Screen Display menu on the DigiMux have priority over Administrators who are accessing the unit remotely via DigiClient for changing and saving configuration settings. Users accessing the OSD menu can perform more functions than remote Users using DigiClient. The following table describes the priorities and limitations for Administrators and Users who access the DigiMux unit:

Account Name	OSD or DigiClient Login	Priority	Limitations
Admin	DigiMux	1	The Administrator on the DigiMux unit can perform all functions and save or load configurations with no limitations.
	DigiClient	2	The DigiClient Administrator performs many of the same functions that the DigiMux Administrator performs. The DigiMux Administrator takes priority, i.e., if a DigiClient Administrator attempts to save a configuration setting and a DigiMux Administrator is logged in on the OSD, the settings cannot be saved from DigiClient. There are some functions a DigiClient Administrator **cannot** perform: • Change physical monitor Settings on the Main DigiMux Monitor • Format disk drives • Export a Digital Signature • Delete Alarm History Log Events • Load the Factory passcode • Change LAN settings on the unit • Reboot the unit
User	DigiMux	3	The DigiMux User can perform some configuration tasks. See the table on page 79 for a list of the functions that a DigiMux User can perform using the OSD menu.

Account Name	OSD or DigiClient Login	Priority	Limitations
User	DigiClient	4	The DigiClient User has the ability to view live, recorded, and alarm video, and download video from the DigiMux unit remotely. A User can view all configuration settings available on DigiClient except for those in the following areas: • Record • Event Manager • Admin Setup

APPENDIX B: DETERMINING YOUR PC'S IP ADDRESS

If you are on a LAN or WAN network and your PC is sending and receiving information to and from other computers on the network, your computer has an IP address. The same procedure for determining the IP address applies whether the address is static or dynamic.

If your PC is communicating with the DigiMux unit via dial-up modem, the PC may or may not have an IP address. If the PC does not have an address, it may receive one from the DigiMux unit in order to communicate with it. Dial-up communication is discussed in *Appendix C: Dial-Up PC Connections* on page 84.

To set up the DigiAlert remote notification from the DigiMux unit, you must know your PC's IP address. To determine the IP address, follow these steps:

1. From the **Start** menu on your PC, select **Run**.
2. In the **Open** field of the Run box, enter **`cmd`** and click **OK**.

   A Windows Command Prompt box is displayed.
3. Enter **`ipconfig /all`** at the command prompt and press **Enter** or **Return**.

   The IP Address is listed in the Command Prompt box. Note this address for the IP Address menu item entry on the DigiMux OSD menu.

APPENDIX C: DIAL-UP PC CONNECTIONS

You can establish a connection between a DigiMux unit and a PC using a USB Modem or an RS-232 Modem with a USB to RS-232 converter. A dial-up modem connection allows you to use DigiAlert and DigiClient without an internet connection.

In order to establish dial-up connections with a PC running Windows 2000 or Windows XP, you must set up your PC to send and receive information to and from the DigiMux via a modem over a phone line. This section provides basic steps for establishing a dial-up modem connection between a PC and a DigiMux unit.

NOTE: While a dial-up modem connection is possible, the speed of a dial-up modem connection over a phone line is considerably slower than a high-speed internet, LAN, or WAN connection.

Dial-up modem connections depend on the modem speed, the integrity of the telephone line, and the amount of information being transmitted over the line. Under optimal conditions, the connection can reach a maximum of 56 Kbps. Thus, dial-up speed is significantly slower than that of an Ethernet connection..

This connection speed affects DigiClient operations considerably. Among these operations are:

- Screen refresh rate
- Downloaded video
- Remote Configuration response
- Dome control response

Make sure your modem is connected to the PC before you proceed. To check the modem connection, click **Start**, **Settings**, **Control Panel**, then **Phone and Modem** and check the Modems tab. Follow the Microsoft Windows instructions for adding your modem if it is not connected.

Establishing the Dial-Out Connection: DigiMux to a PC

Setting up this connection on the PC:

1. Click **Start**, **Settings**, then **Network and Dial-up Connections**, and click **Make new connection**.
2. The Network Connection Wizard box is displayed. Click **Next** to continue.
3. In Network Connection Type select **Accept incoming connections** and click **Next** to continue.
4. In the Devices for Incoming Connections window, select the box for the modem used to make the connection. Make sure that no other boxes are checked, then click **Next** to continue.

5. In the Incoming Virtual Private Connection window, select **Do not allow virtual private connections**, then click **Next** to continue.
6. In the Allowed Users window, click **Add**. The New User window is displayed.
7. In the New User window, you create a new account to communicate with the DigiMux unit. The default User Name and Password is **USER1** and **1234**. You can create your own. Enter User Name and Password in the appropriate fields, then click **OK** to continue. Note that the User Name and Password must match the Dial-Out User Name and Dial-out Password in DigiMux.
8. A new account in the Allowed Users window is listed and the check box next to that name should be checked. If it is not checked, put a check in the box.
9. Click **Properties**, then click the **Callback** tab. Use the default settings. Only **Do not allow callback** should be selected. Click **OK** to exit the Callback tab, and then click **Next**.
10. In the Networking Components window, make sure all boxes are checked. Select **Internet Protocol (TCP/IP)** and click the **Properties** button.

    The Incoming TCP/IP Properties window is displayed.
11. Make sure **Allow callers to access my local area network** is checked. Select **Specify TCP/IP addresses** and enter a valid range of IP addresses in the From and To fields. For example, in the From field, enter 192.168.000.001, and in the To field, enter 192.168.000.253. This group of IP addresses should include the IP addresses set up in your DigiMux Dial-In IP. See Administrator Setup, Dial In/Out, Dial-In IP in the DigiMux OSD menu.
12. Check **Allow calling computer to specify its own IP address** and then click **OK** to continue.

    NOTE: For simplicity, this option is highly recommended.
13. In the Networking Components window, click **Next** to continue.
14. In the Completing the Network Connection Wizard window, you can change the name of the connection, if desired (e.g., DigiMux). Click **Finish**.

Setting up this connection on the DigiMux unit:

1. Press **Menu** and enter your Admin passcode in the User Authorization screen.
2. From the Main Menu, select **7 Administrator Setup**.
3. From the Administrator Setup menu, select **8 Dial In/Out**.
4. From the Dial In/Out menu, select **5 Change Dial-Out User Name**. In the Dial-Out User Name screen, enter the user name for the above PC connection, **USER1** (or the name you assigned to the connection). Remember that the user name is case sensitive. Select **Exit** or press **ESC** when the name is completed.

5. From the Dial In/ Out menu, select **6 Change Dial-Out User Password**. In the Change Dial-Out User Password screen, enter the password **1234** (or the password you assigned to the connection) for the above PC connection. Select **Confirm** and enter the password again. Select **Confirm** again or press **ESC** when confirmation is complete.
6. Press **ESC** twice until the Main Menu is displayed, then select **5 Event Manager**.
7. Select **2 Event Response**, **5 Remote Notification**, **6 Set up**, and then **4 Dial-Out Phone No**. Enter the phone number of the modem that is connected to the PC using the on-screen keyboard. Press **ESC** when complete.
8. Press **ESC** until the Exit menu is displayed, then select **1 Save and Exit**.

The DigiMux dial-out connection to your PC is now set up.

Establishing the Dial-In Connection: PC to a DigiMux

Setting up this connection on the PC:

1. Click **Start**, **Settings**, then **Network and Dial-up Connections**, and click **Make new connection**.
2. The Network Connection Wizard box is displayed. Click **Next** to continue.
3. In the Welcome to the Internet Connection Wizard box, select **I want to set up my Internet connection manually, or I want to connect through a Local Area Network (LAN)** and click **Next** to continue.
4. In the Setting Up your Internet Connection box, select **I connect through a phone line and a modem** and click **Next** to continue.
5. In the Choose Modem box, select the modem on the PC that will be used to make the connection. Make sure that no other modems are checked, then click **Next** to continue.
6. In the Internet account connection information box, enter the phone number of the modem that is connected to the DigiMux. Click **Next** to continue.
7. In the Internet account connection information box, enter the name and password to be used to access the DigiMux unit. For example, you can enter **muxuser** in the User Name field and **muxpass** in the Password field. This name and password must match the Dial-In User Name and Dial-In Password that are set up in the DigiMux. The default User Name is **admin** and the default Password is**1234**. Click **Next** to continue.
8. In the Configuring your computer box, enter a name for your dial-in connection. For example, you can enter **To DigiMux**. Click **Next**.
9. In the Set Up Your Internet Mail Account box, select **No**, and then click **Next**.
10. Click **Finish** to complete your dial-in connection.

11. Click **Start**, **Settings**, then **Network and Dial-up Connections**, and right-click your new connection, i.e., **To DigiMux**. Select the **Networking** tab, and then click **Properties**. Make sure that Obtain an IP address automatically is selected if you are allowing the DigiMux unit to assign the IP address for this connection. This option must be enabled if Auto assign Remote IP is **ON** (this is the default setup in DigiMux).

    If you are not allowing a remote IP assignment from the DigiMux unit, you must enter a static IP address for this connection both in your PC and in the DigiMux remote IP field. Click **OK** to exit the tab and click **OK** again to exit the Properties box.

Setting up this connection on the DigiMux unit:

1. Press **Menu** and enter your Admin passcode in the User Authorization screen.
2. From the Main Menu, select **7 Administrator Setup**.
3. From the Administrator Setup menu, select **8 Dial In/Out**.
4. From the Dial In/ Out menu, select **3 Change Dial-In User Name**. In the Dial-In User Name screen, enter the user name for the above PC connection. The default user name is **admin**. If you assigned a different name, the name on the unit must match the name on the PC. Remember that the user name is case sensitive. Select **Exit** or press **ESC** when the name is completed.
5. From the Dial In/ Out menu, select **4 Change Dial-In User Password**. In the Change Dial-In User Password screen, enter the password for the above PC connection. The default password is **1234**. If you assigned a different password, the password on the unit must match the password on the PC. Select **Confirm** and enter the password again. Select **Confirm** again or press **ESC** when confirmation is complete.
6. From the Dial In/ Out menu, select **2 Dial-In IP**. If you are allowing DigiMux to assign an IP address to the PC for this connection, then use the default setting for Auto assign Remote IP. The default setting is **ON**.

    If you are using a static IP address on your PC and you do not want the DigiMux to assign an IP address for this connection, then select **OFF** for Auto assign Remote IP and enter the IP address for this connection in the Remote IP field.
7. Press **ESC** until the Exit menu is displayed, then select **1 Save and Exit**.

Using the Dial-Up Connections

To operate DigiClient using the dial-in connection to the DigiMux:

1. Click **Start**, **Settings**, then **Network and Dial-up Connections**, and click the **To DigiMux** connection, or the name of the connection that you created.
2. When the connection to the unit is made, start your Internet Browser and enter the Local IP address of your DigiMux in the Address field. DigiClient download then begins.

Dial-out to the PC from the DigiMux takes place when an event occurs and Remote Notification, DigiAlert (Dial) is enabled.

INDEX

A

About DigiAlert 73
Access for Administrators 81
Access to Configuration screen 29
Account access 79
Account priorities 79
Active DigiAlert 72
Adjusting aspect ratio 13
Admin Setup configuration section 30
Administration Tasks 59
Administrator access 81
Administrator online message 31
Administrator Setting
  Load 32
  Save 31
Administrator Setting, Save 31
Administrator Setup 59
Administrators
  Covert Camera Setup 60
  LAN Setup 61
Alarm Events 24
Alarm icon 10
Alarm In
  Day 37
  Night 38
  Weekend 38
Alarm In Detect 49
Alarm In Type on Configuration Table 37
Alarm List 24
Alarm List Display 26
Alarm List display
  description 27
Alarm notification setup 74
Alarm Out 48
Alarm Out on Configuration Table 38
Alarm Set/Reset SW 49
Alarm Simulation for DigiAlert 73
Alarm video playback 27
All cameras playback 18
All (view area) in Motion Detection 54
Any Key to Stop 48
Apply Configuration Settings 31
Applying Settings 69
Aspect ratio 12
Assign camera to window 15
Audio File path for DigiAlert 74
Audio Recording 41
Audio recording and file size 43
Auto Assign remote IP Address 64
Autofocus function 17
Available recorded video 19
AVI Download 20
AVI file playback, local 22

B

Basic features 9
Basic Quality Settings 43
Baud Rate 62
Best Quality preset configuration 40
Bits 62
Browser
  Aspect ratio adjustment 13
Browser preparation 3

C

Call Event Display 48
Call Monitor Dwell 33
Call Monitor Schedule 34
Camera
  Enabling cameras 38
Camera assignment to window 15
Camera configuration section 30
Camera configuration settings 34
Camera title section 35
Camera titles
  position 35
  show 35

Cameras
Configuration table 36
Dome control 16
Cameras for Remote Playback 18
Change download file name 19
Changing Passcodes 59
Channel for Motion Detection 54
Check Pending Alarms 77
Circular recording parameters 40
Clear alarms 77
Clear All 77
Clear entries in remote playback 18
Clear Selected 77
Clear target view in Motion Detection 54
Close 77
Closing Configuration screen 31
Command Port LAN information 68
Compatibility notes 8
Completed downloads 22
Condition for Motion Detection 54
Conditions for Motion Detection 55
Configuration
Close screen 31
DigiAlert 71
Save All 31
Saving 31
Configuration modification information 68
Configuration screen
access 29
Event Manager section 47
Record settings 39
sections 30
System Information section 67
Configuration Section
Admin Setup 30
Camera 30
Date ″ Time 30
Event Manager 30
Monitor 30
Record 30
System Info 30
Configuration Settings 31
Resetting 31
Configuration Table 36
Configuration table
Alarm In Type 37
Alarm Out 38
Covert 37
Day Alarm In 37
Gain Control 37
Motion, Day 37, 38
Motion, Wkd (Weekend) 38
Night Alarm In 38
Termination 37
Video 37
Wkd (Weekend) Alarm In 38
Configuring a remote unit 29
Confirm password 64
Confirm Password, Dial-In/Out 63
Connecting via Dial-up modem 88
Connection 10
Connection speed 84
Controls
Playback 23
Copyright notice ii
Covert Cameras and Covert Playback 60
Covert cameras on Configuration Table 37

D

Data Life Time 41, 46
Days 46
Enable or disable 46
Hours 46
Date display mode 32
Date & Time 32
Date & Time configuration section 30, 32
Date/Time 76
Day Alarm In on Configuration Table 37
Day Motion 37, 38
Day schedule 42

Day/Night Switch, enable 47
Day/Night Switch, time delay 47
Detected Volume 56
Detected Volume for Motion Detection 54
Detection Area Setup for Motion Detection 55
DHCP LAN information 68
Dial In/Out 63
  Dial-In 63
  Password 63
  User Name 63
Dial Out
  Password 64
  User Name 64
Dial-In 63
Dial-In Connection, PC to DigiMux 86
Dial-In IP 63
  Local 63
Dial-Out Connection, DigiMux to PC 84
Dial-Out Phone Number 52, 53
Dial-up connecting 88
Dial-up connections 84
Dial-up speed 84
DigiAlert
  Alarm notification setup 74
  Audio File Path 74
  Clear alarms 77
  Display window 74
  Enable at startup 73
  Icon flash 74
  Inspect and clear alarms 77
  Language selection 73
  launch DigiClient 75
  Pending Alarms Window 76
  Play Audio File 74
  Refresh alarms 78
  Repeat alarm notification 74
  Simulate Alarm 73
  Starting 72
DigiAlert configuration 71
DigiAlert Display Window 75
DigiAlert Event Manager 71
DigiAlert for Dialup 51
DigiAlert for Network 50
DigiAlert IP 51
DigiAlert pending alarms 75
DigiAlert Setup 72
  About 73
  Active 72
  Exit 73
  Pending Alarms 72
  Setup 72
DigiAlert Setup Menu 73
DigiClient icon 11
DigiClient installation 3
DigiClient Overview 1
DigiClient startup 7
DigiClient toolbar 10
DigiClient upgrades 7
DigiClient Version information 67
DigiMux Administration Tasks 59
DigiMux Name 76
DigiMux to PC connection 84
Display for live video 14
Display mode
  Date 32
Display Mode icons 11
Display window for DigiAlert 75
DMV Download 20
DMV file playback, local 21
DNS LAN information 68
DNS setup 62
Dome Camera Icon 66
Dome Control 16
  AutoFocus 17
  Dome Control Panel Toggle 17
  Dome ID and Protocol 16
  Focus 16
  Go Preset 17
  Iris 16
  pan and tilt 16
  Set Preset 17
  Zoom 17
Dome Control Panel 16
Dome Icon 16

Dome ID 66
Dome ID and Protocol function 16
Dome Protocol selection 66
Dome Protocol Setup 66
Download AVI 20
Download AVI files 18
Download completed 22
Download DMV 20
Download DMV files 18
Downloading Video 20
Dwell setting for call monitor 33

E

E-mail address for remote notification 51
Email Address LAN information 68
E-mail notice enabled 50
E-Mail Notification 52
Enable DigiAlert at Startup 73
Enabling cameras 38
End time for download 19
Event Active recording schedule 45
Event Full Screen 48
Event Full Screen response 49
Event Icon 48
Event Management via DigiAlert 71
Event Manager
- Alarm In Detect 49
- Alarm Out 48
- Alarm Set/Reset SW 49
- Any Key to Stop 48
- Call Event Display 48
- Day/Night Switch 47
- Event Full Screen 48
- Event Icon 48
- Internal Buzzer 47
- Motion Detection 49
- Remote Notification 48
- Response Duration 48
- Switch 47
- Video Loss Detect 49

Event Manager configuration section 30
Event Manager section 47
Event partition
- stored events 25

Event Partition Full Alarm 40
Event partition maintenance 28
Event Rec Quality recording
- schedule 44

Event Record Mode recording
- schedule 45

Event Record Partition 41
Event Record Rate 45
Event recording and playback 25
Event Response
- Full Screen 49

Event storage 25
Event video playback 27
Events
- Motion Detection setup 53

Events displayed 26
Exit icon 11
Exiting DigiAlert 73
Extended Record preset
- configuration 40

External Device Information 68

F

Factory Setting
- Load 32

Features, basic 9
File size due to audio 43
Flashing DigiAlert icon 74
Focus dome 16
Format for Time 33

G

Gain control on Configuration Table 37
Gateway setup 62
Gatway LAN information 68
Go Preset function 17

H

Hard Drives 69
Hardware Version information 67
HDD Information 67
High Quality Setting 43
Hours set for Data Life Time 46

I

Icon
- Alarm 10
- DigiClient 11
- Display Modes 11
- Dome 16
- Exit 11
- Live 10
- Setup 10
- Video 10
- Window display icons 11

Icons
- Status 10

Initial String 65
Inspect and clear alarms 77
Installation process 3
Internal Buzzer 47
Internet Browser preparation 3
IP Address LAN information 68
IP address of remote PC 64
IP Address setup 62
IP address, Dial-In IP 63
IP for DigiAlert 51
Iris control 16

L

LAN and Pager information 67
LAN Information
- Command Port 68
- DHCP 68
- DNS 68
- Email Address 68
- External Device Information 68
- Gateway 68
- IP 68
- Netmask 68
- Pager Number 68
- Video Port 68

LAN Setup 61
- DHCP 61
- DNS 62
- Gateway 62
- IP Address 62
- Netmask 62
- Save LAN setup 62

Language selection for DigiAlert 73
Last Alarm 76
Launch DigiClient from DigiAlert 75
License Agreement iii
Live icon 10
Live Video 14
Live video
- display 14

Loading Administrator settings 32
Loading the Factory Settings 32
Local 63
Local AVI file playback 22
Local DMV file playback 21
Local Playback tab 21
Login Procedure, Standard 5

M

Maintenance
- Hard Disk Drive partitions 28

Max Dial-Out Idle Time 65
Max Dial-Out Retry 65
Max Dial-Out Time 65
Medium Quality Settings 43
Minimum Dial-Out Interval 65
Modem
- Initial String 65
- Max Dial-Out Idle Time 65
- Max Dial-Out Retry 65
- Max Dial-Out Time 65
- Minimum Dial-Out Interval 65
- Retry Delay 65
- Static IP address 64

Modem connections 63, 84
Modem speed 84

Monitor configuration section 30
Monitor configuration settings 33
Motion Detection 49
Detection area setup 55
Sensitivity Threshold determination 56
Start and Stop for camera 57
Motion Detection Conditions 55
Motion Detection Setup 53
Motion Detection, enabling 55
Motion Setup Window 54
All (view area) 54
Channel 54
Clear (view area) 54
Condition 54
Detected Volume 54
Start 54
Stop 54
Threshold 54
Motion, Day on Configuration Table 37, 38
Motion, Wkd (Weekend) on Configuration Table 38

N

Netmask LAN information 68
Netmask setup 62
Night Alarm In on Configuration Table ... 38
Night schedule 42
Normal partition stored events 25
Normal Partition Full Alarm 41
Normal partition maintenance 28
Normal Rec IPS recording schedule 44
Normal Rec Quality recording schedule .. 44
Normal Record Rate 45

O

Off, turning off preset configuration 40
Overview 1

P

Pager notice enabled 50
Pager Number 52
Pager number 52
Pager Number LAN information 68
Pan and tilt dome view 16
Parity 63
Passcodes changing 59
Password confirmation 64
Password for dial in/out 63
Password for Dial Out 64
PC remote IP address 64
PC to DigiMux connection 86
Pending alarms 75
Pending Alarms Window 76
Clear All 77
Clear Selected 77
Close 77
Date/Time 76
DigiMux Name 76
Last Alarm 76
Refresh 77
Pending Alarms, checking 77
Pending Alarms, DigiAlert 72
Play Audio File for DigiAlert 74
Playback
Alarmsand event video 27
Events 25
local AVI file 22
local DMV file 21
Local video 21
Remote video 19
Playback controls 23
Playback mode 22
Playback tab 17
Playback video 17
Position of camera titles 35
Pre-Alarm Recording 40
Pre-Alarm video availability 26
Pre-Alarm Video Quality and Record Rate 45

Preemptive dial out 51
Preset Configuration 39
Best Quality 40
Extended Record 40
Off 40
Standard 40
Priorities for accounts 79
Purge Recording Data 41

Q

Quality of pre-alarm video 45
Quality Settings
Basic 43
High 43
Medium 43
Standard 43
Superior 43

R

Record
Data Life Time 41
Record configuration section 30
Record rate of pre-alarm video 45
Record Rates 45
Record Settings 39
Recorded video available 19
Recording events 25
Recording Parameters 40
Recording parameters
Audio Recording 41
Circular Recording 40
Event Partition Full Alarm 40
Event Record Partition 41
Normal Partition Full Alarm 41
Pre- 40
Preset Configurations 39
Purge Recording Data 41
Recording Parameters, general 39
Recording Quality 42
Recording schedule
Event Active 45
Event Rec Quality 44
Event Record Mode 45
Normal Rec IPS 44
Normal Rec Quality 44
Start Time 44
Stop Time 44
Weekend Schedule 45
Recording schedule parameters 44
Recording schedule setup 46
Refresh 77
Refresh alarms 78
Remote IP address 64
Remote IP Address, auto assign 64
Remote Notification 48
Dial-Out Phone Number 52
DigiAlert IP Address entry 51
DigiAlert (Dial) 51
DigiAlert (Net) 50
E-mail 50, 52
E-mail address entry 51
Pager 50
Pager number entry 52
Preemptive dial out 51
Remote Notification Setup
Pager Number 52
Remote Notification setup 51
Remote Playback
All (cameras) 18
Available Recorded Video 19
Cameras 18
Change File 19
Clear entries 18
Download (.AVI) 18
Download (.DMV) 18
End time for download 19
Playback, remote 18
Select playback 18
Start time for download 19
Remote Playback Tab 18
Remote playback tab 17
Remote video
Playback 19
Repeat alarm notification 74
Requirements, System 2
Resetting configuration 31
Response Duration 48

Retry Delay 65
Revision Information 67
Config Modified 68
DigiClient Version 67
Hardware Version 67
Software Version 67
RS-485 ID 62
RS-485 Settings 62
Baud Rate 62
Bits 62
Parity 63
Stop 63
RS-485 Setup 62
RS-485 time calibration 33

S

Save 31
Save All 31
Save Configuration Settings 31
Saving Administrator Setting 31
Saving configuration 31
Saving the LAN Setup 62
Schedule for call monitor 34
Schedule parameters 44
Schedules: Day, Night, and Weekend 42
Sections, Configuration screen 30
Select playback type 18
Sensitivity Threshold Determination, Motion Detection 56
Set Preset function 17
Set up for Remote Notification 51
Setting date and time 32
Setting up Alarm Notification 74
Setting up DigiAlert 72
Setting up Motion Detection 53
Setting up recording schedule 46
Settings, applying 69
Setup
Dome Protocol 66
Setup for DigiAlert 72
Setup for DigiClient 29
Setup icon 10
Setup menu for DigiAlert 73
Setup, Administrator 59
Show camera title 35
Simulate DigiAlert Alarm 73
Software Version information 67
Standard preset configuration 40
Standard Quality Settings 43
Start and Stop Motion Detection 57
Start Motion Detection test 54
Start time for download 19
Start Time recording schedule 44
Starting DigiAlert 72
Starting DigiClient 7
Starting DigiClient from DigiAlert 75
Status icon 10
Stop bit 63
Stop Motion Detection test 54
Stop Time recording schedule 44
Storage Device Information 67
Stored video playback 17
Superior Quality Setting 43
Switch 47
System Info configuration section 30
System Information
HDD Information 67
LAN and Pager Information 67
Revision Information 67
Storage Device Information 67
System Information section 67
System Requirements, minimum 2

T

Termination resistor on Configuration Table 37
Threshold 56
Threshold for Motion Detection 54
Time and Date, setting 32
Time calibration, RS-485 33
Time Format 33
Titles, camera 35
Toggle dome control 17
Toolbar, DigiClient 10

U

Upgrade software 7
USB Modem 52, 53
User configurations 40
User Name 63
User Name for Dial Out 64

V

Version compatibility notes 8
Video
    downloading 20
    playback events 27
    Pre-alarm availability 26
Video icon 10
Video Loss Detect 49
Video on Configuration Table 37
Video playback 17
Video playback, local 21
Video Port LAN jnformation 68
Video, live 14
Viewing live video 14
Viewing Window 12

W

Weekend schedule 42
Weekend Schedule recording
    schedule 45
Window camera assignment 15
Window display icons 11
Window display, DigiAlert 74
Wkd (Weekend) Alarm In on
    Configuration Table 38
Wkd (Weekend) Motion 38

Z

Zoom function 17

NOTES

www.AmericanDynamics.net

Part No. 8200-00390-9900 A0